

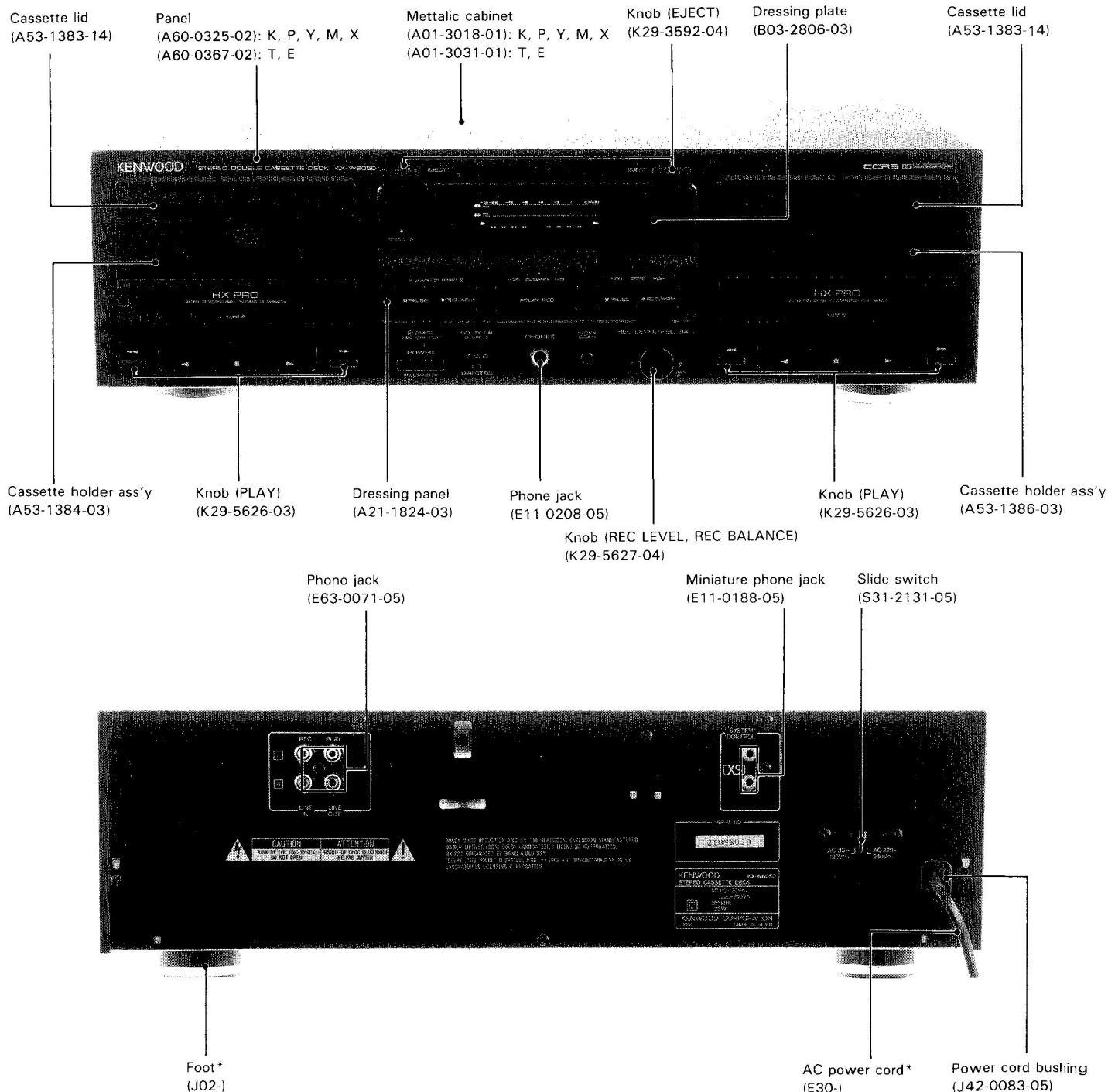
STEREO DOUBLE CASSETTE DECK

KX-W6050

SERVICE MANUAL

KENWOOD

©1992-12 PRINTED IN JAPAN
B51-4679-00(S) 4229



* Refer to part list on page 38.

KX-W6050

CONTENTS

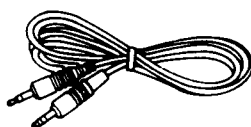
ACCESSORIES	2	REGLAGES	26
CONTROL AND OPERATION	3	ABGLEICH	27
DISASSEMBLY FOR REPAIR	4	WIRING DIAGRAM	29
BLOCK DIAGRAM	6	PC BOARD	31
CIRCUIT DESCRIPTION	7	SCHEMATIC DIAGRAM	33
TIMING CHART	15	EXPLODED VIEW	37
MECHANISM DESCRIPTION	18	PARTS LIST	39
ADJUSTMENT	25	SPECIFICATIONS	BACK COVER

Accessories

Audio cord 2
(E30-0505-05)



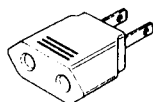
System control cord 1
(Except for U.K. and Europe)
(E30-2733-05)



AC cord 1
(Except for some areas.)
(The shape may vary depending on the destination area.)



AC plug adaptor 1
(Except for some areas)
(E03-0115-05)



INSTRUCTION MANUAL

B60-1062-00	ENGLISH	P, E
B60-1063-00	FRENCH	M
B60-1064-00	CHINESE	M, E
B60-1065-00	SPANISH	E
B60-1066-00	GERMANY, DUTCH, ITALY	

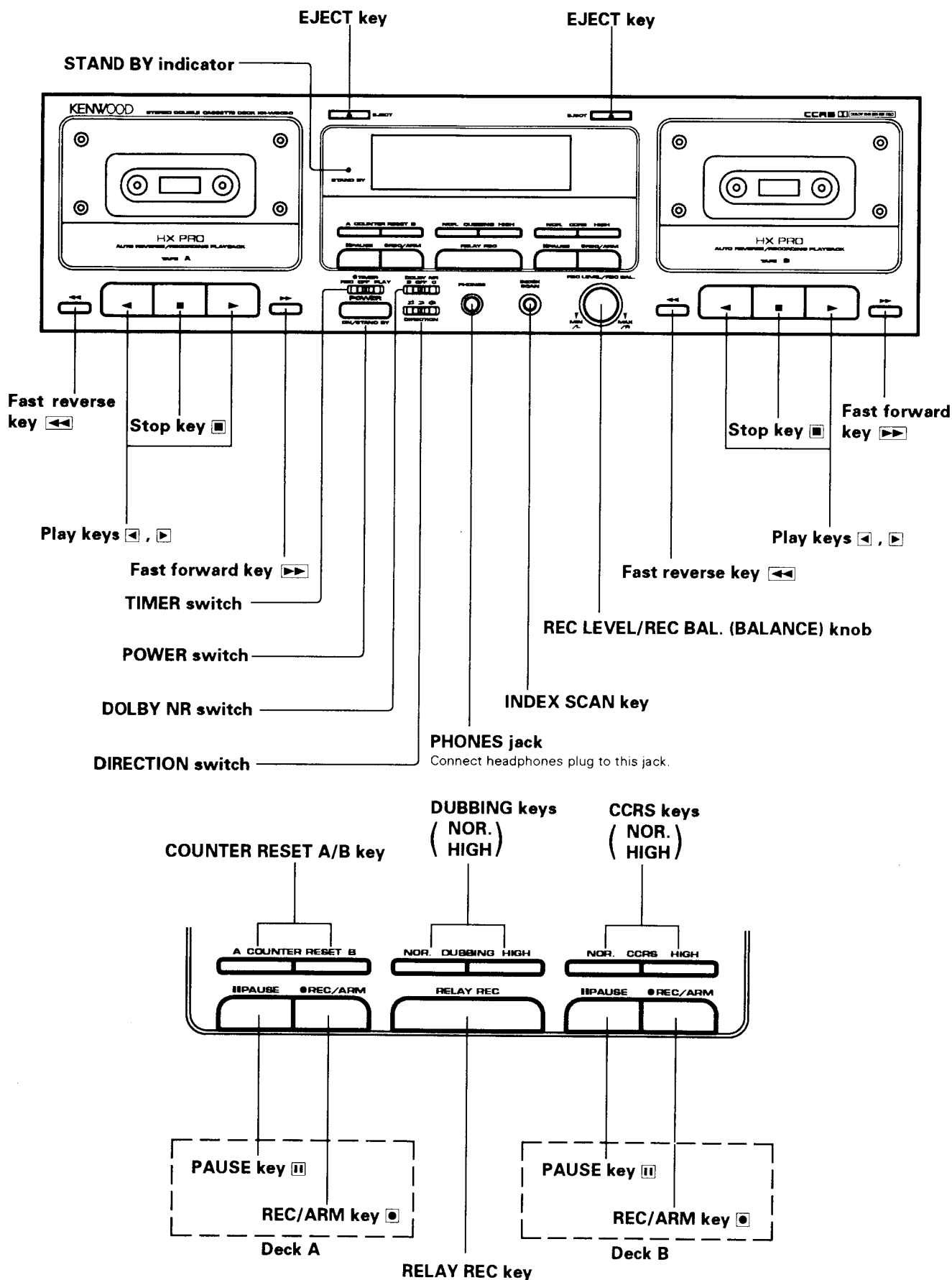
ITEM CARTON CASE

H50-0512-04	K, P, Y, M, X, E
H50-0563-04	T

POLYSTYRENE FOAMED FIXTURE

H10-5101-12	L	K, P, Y, M, X, E
H10-5102-12	R	K, P, Y, M, X, E
H10-5420-02	L	T
H10-5421-02	R	T

CONTROL AND OPERATION

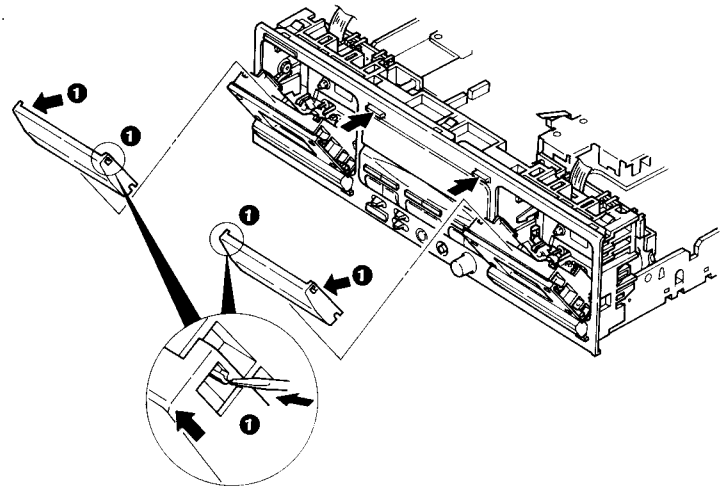


KX-W6050

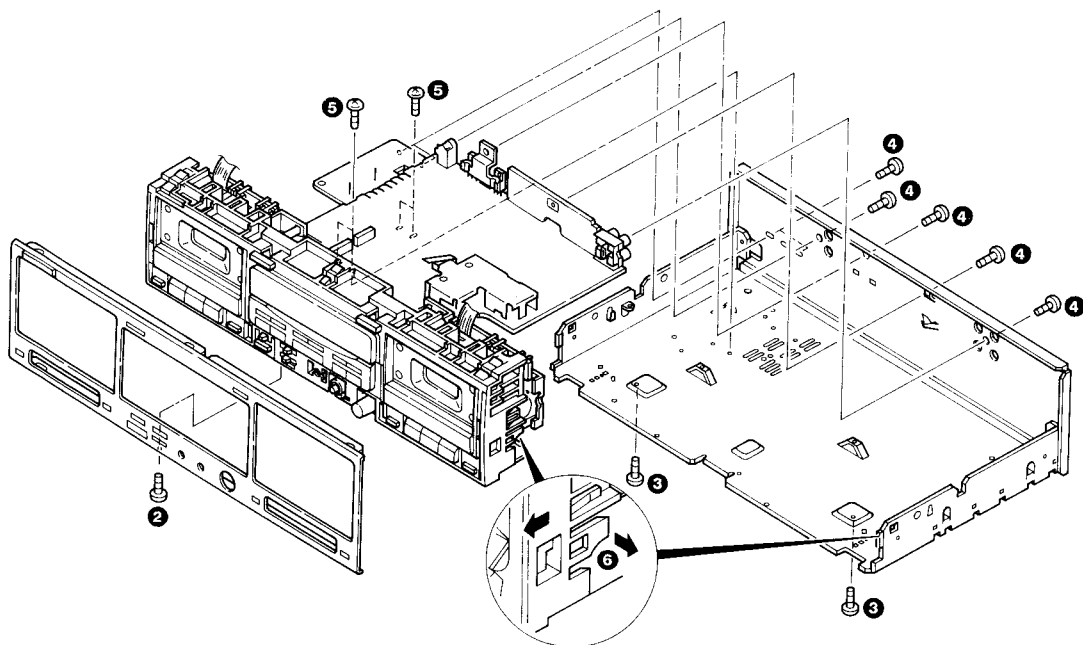
DISASSEMBLY FOR REPAIR

•Take out the case beforehand.

1. Push the Eject button, and when the cassette holder have opened, push the two hooks ❶ of the right- and left-hand sides with a square-bar standard sorewdriver and the like from the outer side, and remove the lid.



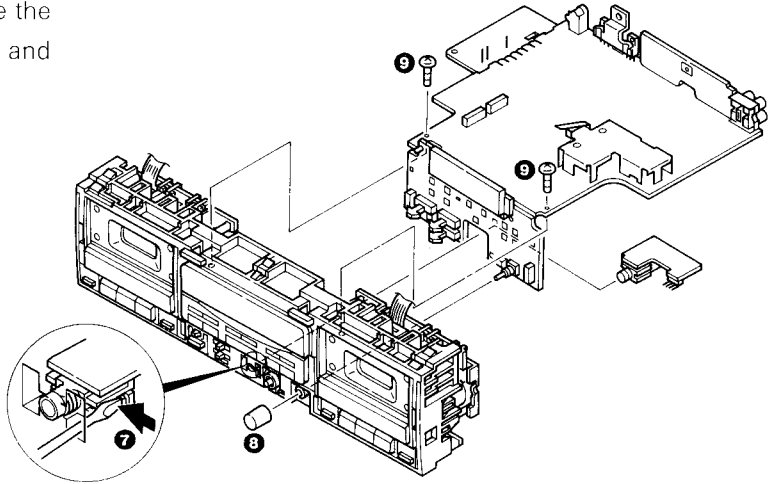
2. Remove the screw ❷ of the lower part, undo the 5 claws, and remove the front panel.
3. Remove the 2 screws ❸ of the lower part, remove the 6 screws ❹ of the rear side and remove the 4 screws ❺ of the transformer, undo the 2 claws ❻, and remove the sub-panel ass'y to the front side.



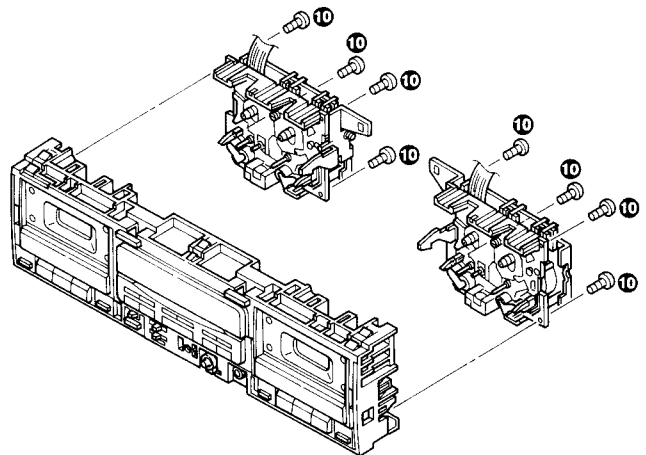
KX-W6050

DISASSEMBLY FOR REPAIR

4. To remove the X28 (F/7) headphone jack, push the 2 claws **7** with a square-bar standard screwdriver and the like, and undo them.
5. Remove the knob **8**, undo the 6 claws, remove the 2 screws **9**, and then remove X28-(A/7), (B/7) and (C/7) (G/7).

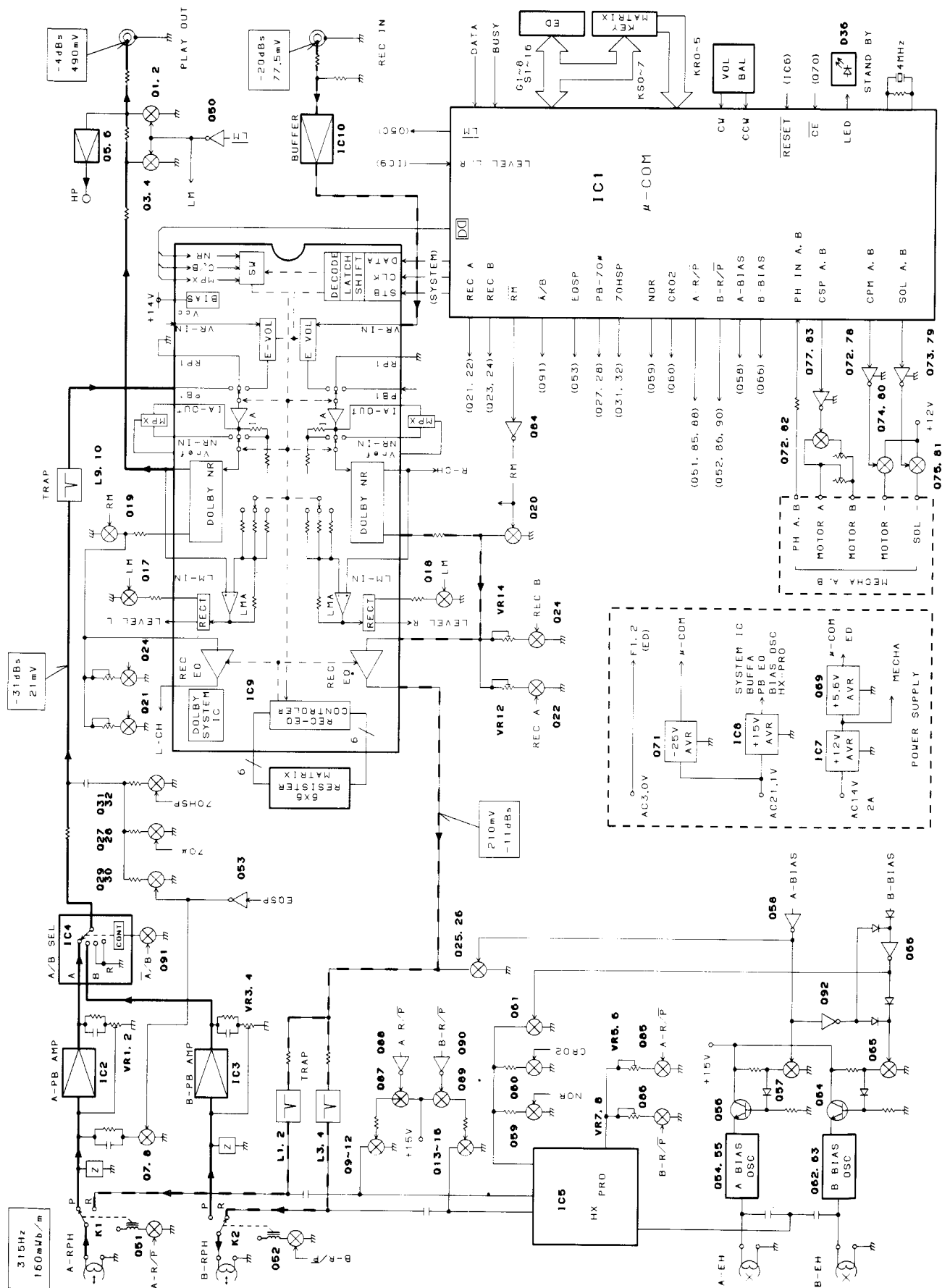


6. The mechanism ass'y comes off when the 8 screws **10** are removed.



KX-W6050

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Record playback amplifier unit (X28-249X-XX)

Ref. No	Parts Name	Use/Function	Operation/Condition
IC1	CXP82324-126Q	MICRO PROCESSOR	
IC2,3	TA8125S	P-B AMP	
IC4	XRU4052B	P-B A/B SW	
IC5	μ PC1297CA	DOLBY-HXPRO IC	
IC6	PST529D	RESET IC	
IC7	XRA17812T	+ 12V AVR	
IC8	XRA17815T	+ 15V AVR	
IC9	HA1215NTA	SYSTEM IC	
IC10	NJM4565D-D or XRA15218-DX	INPUT BUFFER	
Q1~4	2SD1302 (S, T)	PLAY OUT MUTING	CONTROLLED BY Q50 ON-MUTE
Q5, 6	2SC1845 (F, E)	HEADPHONE AMP	
Q7, 8	DTC124ES or UN4212	HIGH-SPEED EQ SW	ON-NOMAL SPEED
Q9~12	2SC1845 (F, E)	HX BIAS SW (A)	CONTROLLED BY Q87 ON- A REC
Q13~16	2SC1845 (F, E)	HX BIAS SW (B)	CONTROLLED BY Q88 ON- B REC
Q17, 18	2SC1740 (Q, R) or 2SC3311A (Q, R)	LEVEL AMP SW	CONTROLLED BY Q50 ON-MUTE
Q19, 20	2SD1302 (S, T)	REC MUTE	CONTROLLED BY Q84 ON- PLAY
Q21, 22	DTC124ES or UN4212	REC A SW	A REC- ON
Q23, 24	DTC124ES OR UN4212	REC B SW	B REC- ON
Q25, 26	2SC1740S (Q, R), 2SC3311A (Q, R)	REC MITE	A REC- OFF
Q27, 28	DTC1214ES or UN4212	PB EQ 70 μ SW	70 μ PB- ON
Q29, 30	DTC124ES or UN4212	120 μ HIGH SPEED	A- 120 μ HIGH SPEED DUB. ON
Q31, 32	DTC124ES or UN4212	70 μ HIGH SPEED	A- 70 μ HIGH SPEED DUB. ON
Q50	DTA124ES or UN4112	PB OUT MUTE DRIVER	CONTROLLED BY IC1-76 PIN
Q51	DTC124ES or UN4212	A HEAD R/P CONTROLE	CONTROLLED BY IC1- 40 PIN, A REC- ON
Q52	DTC124ES or UN4212	B HEAD R/P CONTROLE	CONTROLLED BY IC1- 44 PIN, B REC- ON
Q53	DTC124ES or UN4212	EQ SP- SW	HIGH SPEED DUB- ON
Q54, 55	2SC1740S (Q, R) or 2SC3311A (Q, R)	A-BIAS OSC	
Q56	2SC3940A (R, S)	A-BIAS CONTROLE	CONTROLLED BY Q57
Q57	DTC143TS or UN4216	A-BIAS ON-OFF SW	CONTROLLED BY Q58

KX-W6050

CIRCUIT DESCRIPTION

Ref. No	Parts Name	Use/Function	Operation/Condition
Q58	DTA124ES or UN4212	A-BIAS CONTROLE	CONTROLED BY IC1- 41 PIN
Q59	DTC124ES or UN4212	B-BIAS CONTROLE	CONTROLED BY IC1- 43 PIN
Q60	DTC124ES or UN4212	B-BIAS CONTROLE	CONTROLED BY IC1- 42 PIN
Q61	2SD1302 (S, T)	B-BIAS ON-OFF SW	CONTRTOLED BY Q65 B REC- OFF
Q62, 63	2SC2003 (L, K)	B-BIAS OSC	
Q64	2SC3940A (R, S)	B-BIAS CONTROLE	CONTROLED BY Q65
Q65	UN4212	B-BIAS CONTROLE	B REC- OFF
Q66	UN4212 or DTC124ES	B-BIAS CONTROLE	B REC- ON
Q67	2SC1740S (Q, R) or 2SC3311A (Q, R)	GRID DRIVER	CONTROLED BY IC1- 19 PIN
Q68	2SC1740S (Q, R) or 2SC3311A (Q, R)	GRID DRIVER	CONTROLED BY IC1- 20 PIN
Q69	2SC3940A (Q, R)	+ 5.6 V AVR	
Q70	2SC1740S (Q, R) or 2SC3311A (Q, R)	RESET	CONTROLED BY IC6
Q71	2SA1123 (R, S)	- 23 V AVR	
Q72, 78	DTC124ES or UN4212	A OR B CPM SW	
Q73, 79	DTC124ES or UN4212	A OR B SOL SW	
Q74, 80	2SA1534A (R, S)	A OR B CPM SW	
Q75, 81	2SA1534A (R, S)	A OR B SOL SW	
Q76, 82	2SA1309A (Q, R) or 2SA933S (Q, R)	A OR B CSP SW	
Q77, 83	DTC124ES	A OR B CSP SW	
Q84	DTA124ES or UN4112	REC MUTING DRIVER	CONTROLED BY IC1- 77 PIN
Q85	DTC124ES or UN4212	A BIAS SELECT	A REC- ON
Q86	DTC124ES or UN4212	B BIAS SELECT	B REC- ON
Q87	2SA992 (F, E)	A BIAS CONTROLE	CONTROLED BY Q88
Q88	DTC124ES or UN4212	A BIAS CONTROLE	CONTROLED BY IC1- 40 PIN
Q89	2SA992 (F, E)	B BIAS CONTROLE	CONTROLED BY Q90
Q90	DTC124ES or UN4212	B BIAS CONTROLE	CONTROLED BY IC1- 44 PIN
Q91	DTC124ES or UN4212	PB A/B SW	CONTROLED BY IC1- 37 PIN
Q92	DCTC143TS or UN4216	A BIAS CONTROLE	CONTROLED BY Q58

CIRCUIT DESCRIPTION

Description of Functions

Feature

(a) Recording system

- Relay recording, W reverse

If decks A and B are loaded with a cassette, the direction mode is \Rightarrow or \Leftarrow , one deck is recording and the other is in the REC PAUSE mode, and the recording sources match, then, when the end of the tape on the deck recording is reached, recording continues automatically on the other deck.

Conditions:

- 1 Decks A and B are both loaded with a cassette that can be recorded on in the appropriate current tape direction.
- 2 The reverse mode switch is set to \Rightarrow or \Leftarrow .
- 3 The recording source is the same for both decks.
- 4 Neither deck is in ARM. One deck records and the other is stopped.

Operation:

1 \Rightarrow mode (A to B only)

When the end of the tape of one side is reached on the deck recording, the deck stops, and the other deck starts recording automatically.

2 \Leftarrow mode (A to B only)

When the end of the tape of the reverse side is reached on the deck recording, the deck stops, and the other deck starts recording automatically.

(b) Relay play

If decks A and B are both loaded with a cassette, and the direction mode is \Rightarrow or \Leftarrow , then when the end of the tape is reached on the deck playing, the other deck starts playing automatically.

Conditions:

- 1 Decks A and B are both loaded with a cassette.
- 2 The reverse mode switch is set to \Rightarrow or \Leftarrow .
- 3 One deck plays normally, not with DPSS, and the other is stopped.

Operation

1 \Rightarrow mode

When the end of the tape is reached on the deck playing, the deck rewinds if it is playing in the forward direction, and fast forwards if it is playing in the reverse direction, and the other deck starts playing automatically in the current tape direction.

2 \Leftarrow mode

When the end of the tape of the reverse side is reached on the deck playing, the deck stops, and the other deck starts playing in the forward direction.

(c) DPSS

SKIP selection, single-tune repeat, autorecord mute, and RE-REC standby operations are performed by pressing the appropriate keys.

(d) Timer operation

Timer recording and playback are possible by setting the timer switch. When the timer switch has been set to PLAY or REC and the power is switched on, the desired operation takes places after an initial delay (about four seconds). With timer recording, "TUNER PLAY" 28H (serial code) is output about 1.5 seconds after the power comes on, and the amplifier input selector is set to TUNER.

(e) Dubbing

Normal and high-speed dubbing from deck A to deck B are possible with the NORMAL DUBBING and HIGH-DUBBING keys.

(f) CCRS

Synchronized recording is done by automatically optimizing the deck recording level to suit the CD maximum output level.

Procedure

- 1 Load a disc in the CD player and a recordable tape in the deck.
- 2 Set the amplifier input selector to CD, and set TAPE2 MONITOR to OFF. (For models with a REC OUT selector, set REC OUT to CD.)
- 3 Set CD TRACK/PGM and EDIT1/2 as required.
- 4 If you want to do relay recording, press the RELAY REC key.
- 5 Press the CCRS/HI-CCRS key.

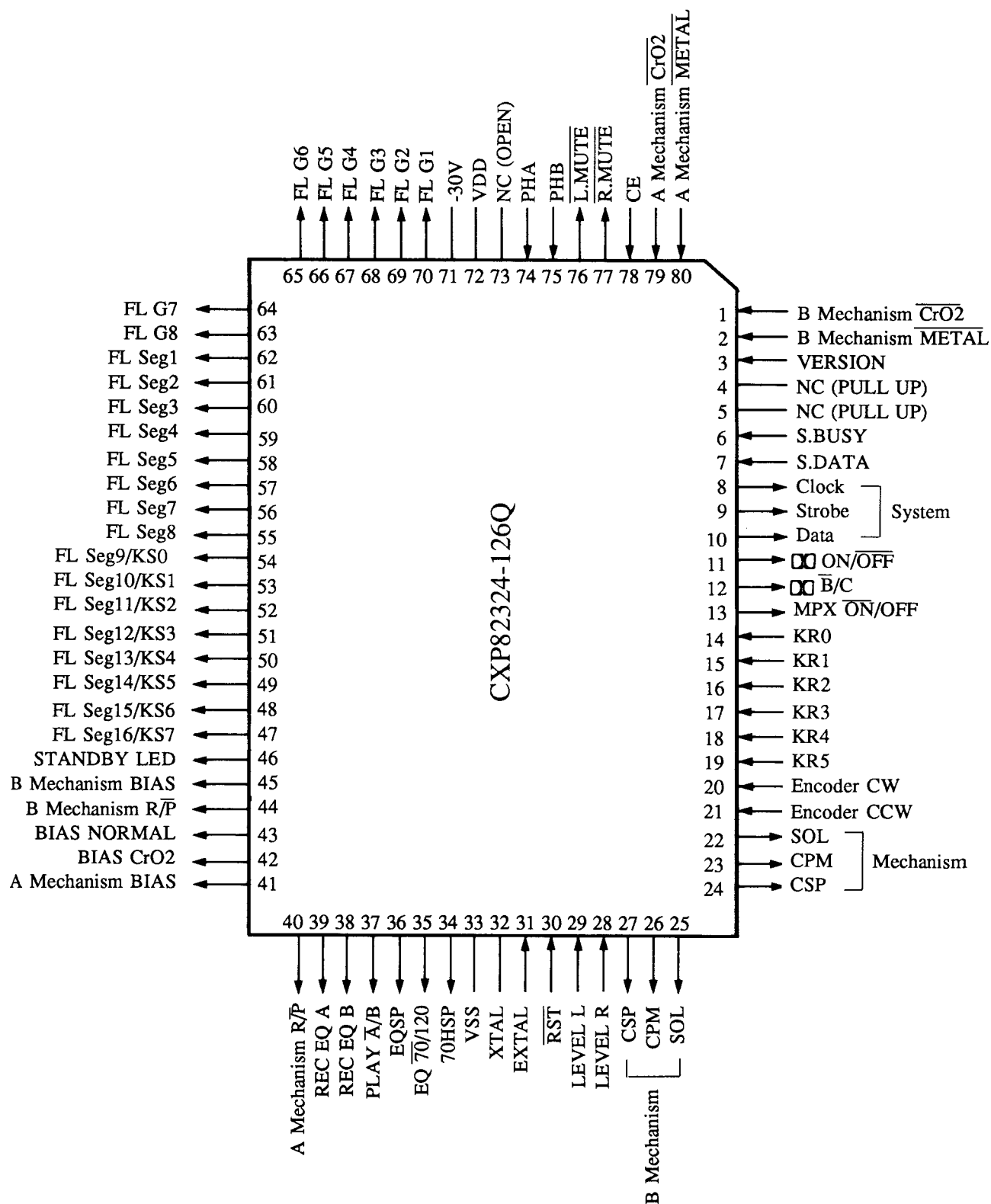
(g) Serial communication function

Various serial operations are possible when the deck is combined with a system having a serial communication bus.

KX-W6050

CIRCUIT DESCRIPTION

Pin Connection



CIRCUIT DESCRIPTION

Pin Description

Pin No.	I/O	Name	Description
1	I	B Mechanism $\overline{\text{CrO2}}$	B-mechanism CrO2 tape detection H: NORMAL
2	I	B Mechanism $\overline{\text{METAL}}$	B-mechanism metal tape detection L: METAL
3	I	VERSION	Destination changeover H: 6050, L: 4050, W893
4			Unused (PULL UP)
5			Unused (PULL UP)
6	I/O	S. BUSY	Serial BUSY input/output
7	I/O	S. DATA	Serial data input/output
8	O	CLK	System IC clock output
9	O	STB	System IC strobe signal input
10	O	DATA	System IC serial data output
11	O	$\overline{\text{DO}}$ ON/OFF	Dolby ON/OFF control H: ON
12	O	$\overline{\text{DO}}$ B/C	Dolby B/C switching H: C
13	O	MPX $\overline{\text{ON/OFF}}$	MPX filter switching L: ON
14 ~ 19	I	KR0 ~ KR5	Key return signal input H: RETURN
20	I	Encoder CW	Encoder clock signal input H: RETURN
21	I	Encoder CCW	Encoder clock signal input H: RETURN
22	O	SOLA	A-solenoid control H: ON
23	O	CPMA	A-capstan motor control H: ON
24	O	CSPA	A-capstan motor switching H: NORMAL L: HIGH SPEED
25	O	SOLB	B-solenoid control H: ON
26	O	CPMB	B-capstan motor control H: ON
27	O	CSPB	B-capstan motor switching H: NORMAL L: HIGH SPEED
28	I	LEVEL R	CCRS, DPSS Rch signal input
29	I	LEVEL L	CCRS, DPSS Lch signal input
30		$\overline{\text{RESET}}$	Reset signal input L: RESET
31 ~ 32	I	EXTAL, XTAL	Clock oscillator connection terminal (10 MHz)
33		Vss	GND

KX-W6050

CIRCUIT DESCRIPTION

Pin No.	I/O	Name	Description	
34	O	70HSP	EQ SP HIGH & BIAS 70 μ s	H: ON
35	O	120/70	Bias switching	H: 120 μ s
36	O	EQ SPEED	PLAY EQ SPEED switching	H: NORMAL
37	O	PLAY A/B	A/B head switching	H: B head ON
38	O	REC EQ B	REC equalizer A/B switching	
39	O	REC EQ A	REC equalizer A/B switching	
40	O	A Mechanism R/P	A REC/PLAY switching	H: REC
41	O	A Mechanism BIAS	A bias ON/OFF control	H: ON
42	O	BIAS CrO2	PLAY BIAS SWITCHING	H: CrO2
43	O	BIAS NOR	PLAY BIAS SWITCHING	H: CrO2
44	O	B Mechanism R/P	B REC/PLAY switching	H: REC
45	O	B Mechanism BIAS	B bias ON/OFF control	H: ON
46	O	STBY LED	Standby LED ON	H: ON
47 ~ 54	O	KS7 ~ KS0 & Seg 16 ~ 9	Key scan signal output & FL tube segment signal output	H: SCAN H: ON
55 ~ 62	O	Seg 8 ~ 1	FL tube segment signal output	H: ON
63 ~ 70	O	Grid8 ~ 1	FL tube grid signal output	H: ON
71		VFDP	FL tube driving voltage (– 30 V)	H: ON
72		VDD	Positive power supply terminal (+ 5V)	
73			Unused (OPEN)	
74	I	PHA	A-mechanism rotation detection input	
75	I	PHB	B-mechanism rotation detection input	
76	O	L MUTE	Line mute control	L: ON
77	O	R MUTE	Rec mute control	L: ON
78	I	CE	Backup detection terminal	L: BACK UP
79	I	A Mechanism CrO2	A-mechanism CrO2 tape detection	H: NORMAL
80	I	A Mechanism METAL	A-mechanism metal tape detection	L: METAL

CIRCUIT DESCRIPTION

Test Mode

The system enters this test mode when KS4 (TP4) and KR5 (TP3) are shorted together with a diode and the AC power plug connect to the AC cutlet.

Cancel method : Press the REC pause key or disconnect the AC power plug from the AC outlet.

Mode No	Timer switch position	Key	Operation
1	-	-	ALL ON-DISPLAY All the indicators light for about 1.5 sec. Keys are enabled after the indicators go out.
2	-	-	MECHANICAL SWITCH DISPLAY The state of each mechanical switch is shown on the level meter. <div style="text-align: center; margin-top: 20px;"> </div>
3	OFF	REC	4 SECOONDS RECORDING Record for 4 seconds, returns to the begining, and play back (can be repeated). <div style="text-align: center; margin-top: 20px;"> </div>
4	PLAY	POWER	AUTOMATIC TIMER PLAY Set timer play when the power is switched on. <div style="text-align: center; margin-top: 20px;"> </div>

KX-W6050

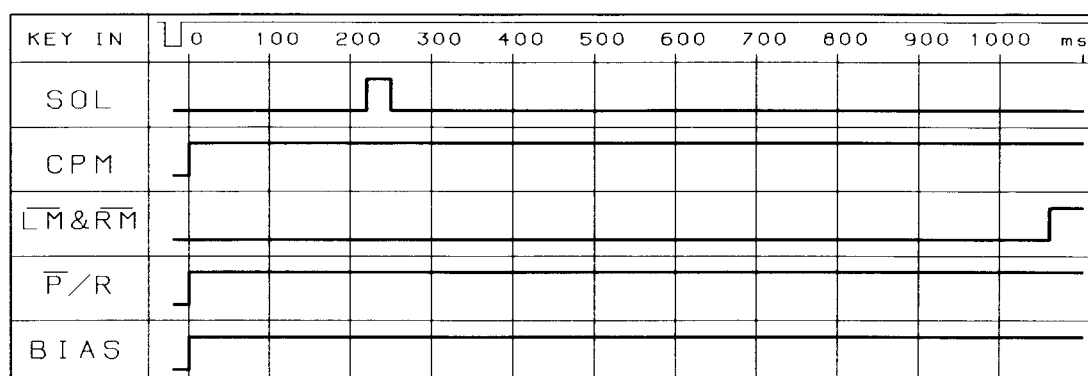
CIRCUIT DESCRIPTION

Mode No	Timer switch position	Key	Operation
5	REC	POWER	<p>AUTOMATIC TIMER RECORDING Set timer recording when the power is switched on. (Deck B only)</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">REC 15 SEC</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">RWD</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">PLAY</div> </div> <p style="text-align: center;">START</p> </div>
6	OFF	★	<p>PLAY BACK SPEED SWITCHING</p> <p>FWD Key : Normal speed P.B (FWD) FF Key : Hi-speed P.B (FWD) RVS Key : Normal speed P.B (RVS) RWD Key : Rewind</p>
7	OFF	H.DUBB N.DUBB	<p>DUBBING MODE</p> <p>The dubbing mode is entered pressing. Then dubbing key for both high and normal. If the dubbing key is pressed after that, only the speed and circuit system changed.</p>

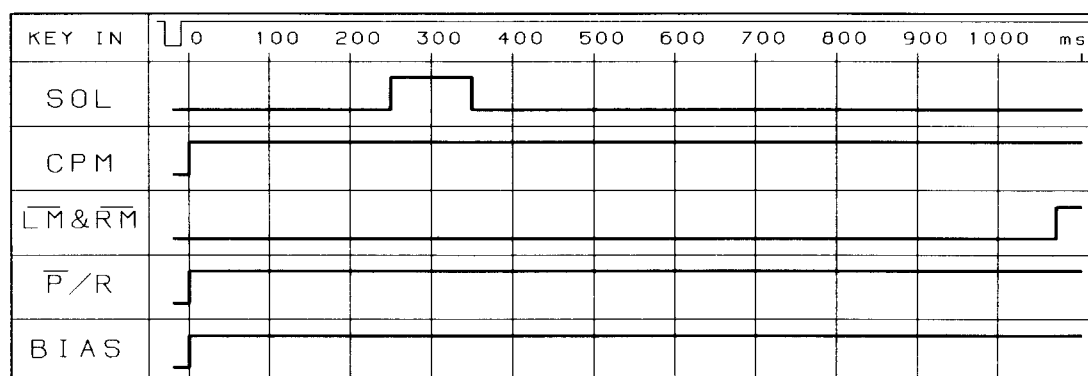
CIRCUIT DESCRIPTION

TIMING CHART

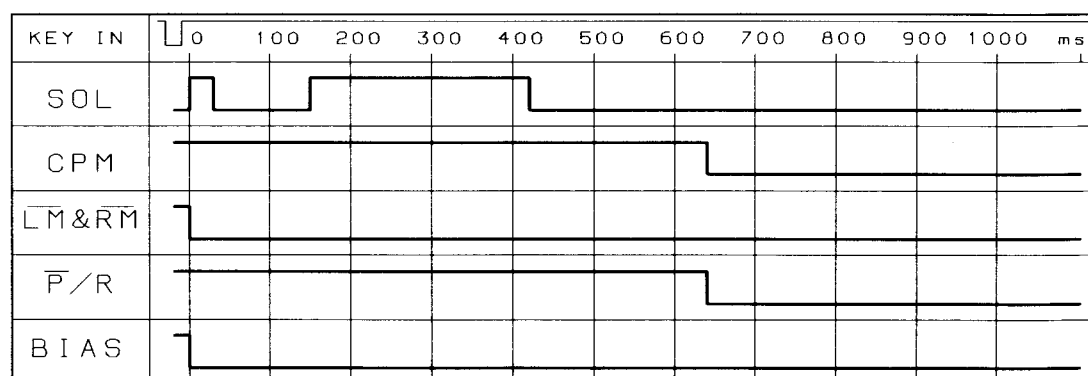
STOP to FWD REC



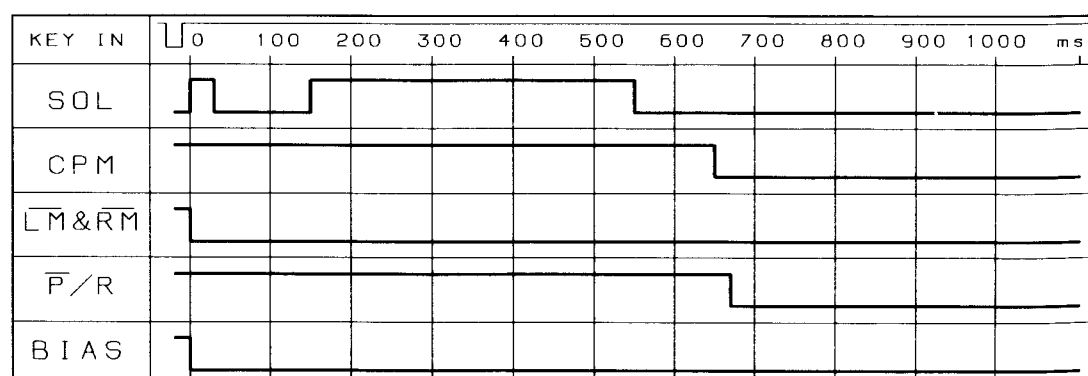
STOP to RVS REC



FWD REC to STOP



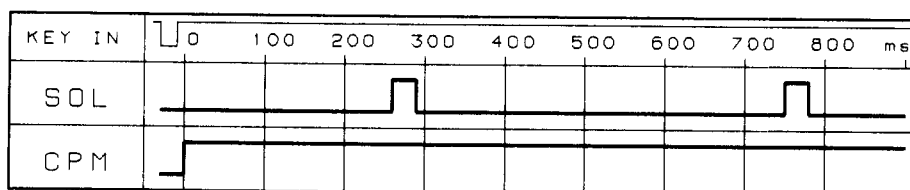
RVS REC to STOP



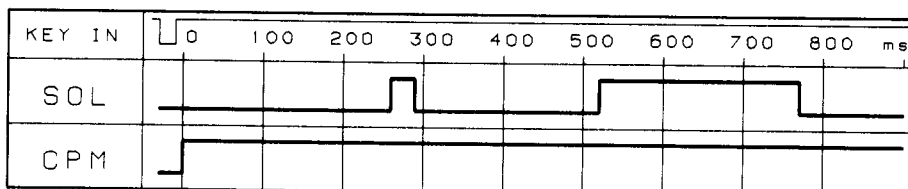
KX-W6050

CIRCUIT DESCRIPTION

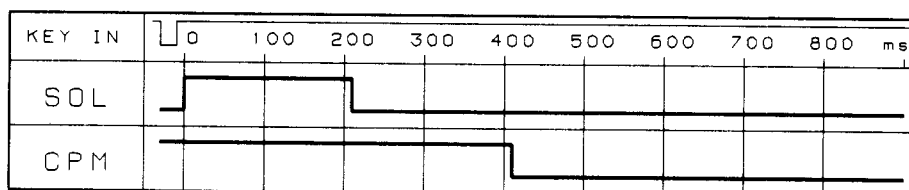
STOP to FF



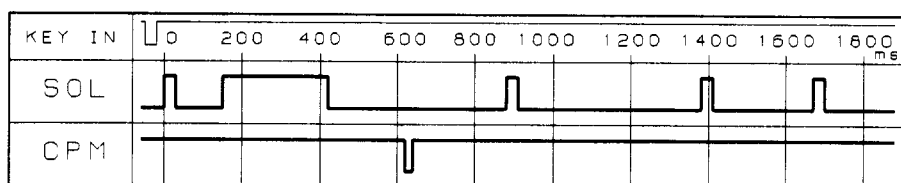
STOP to RWD



FF/RWD to STOP

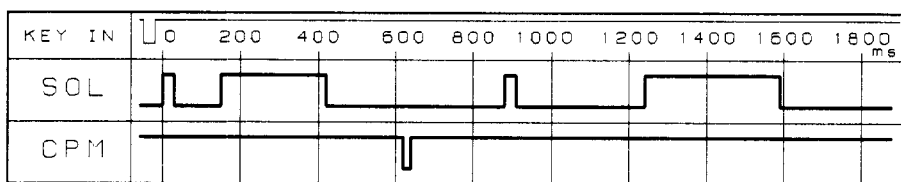


FWD PLAY to CUE



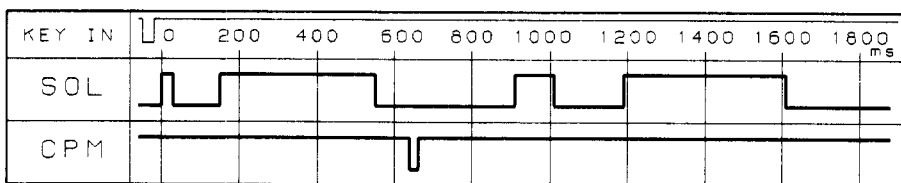
PLAY → STOP → CUE

FWD PLAY to RVW



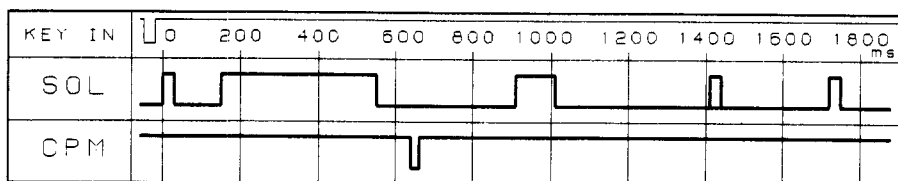
PLAY → STOP → RVW

RVS PLAY to CUE



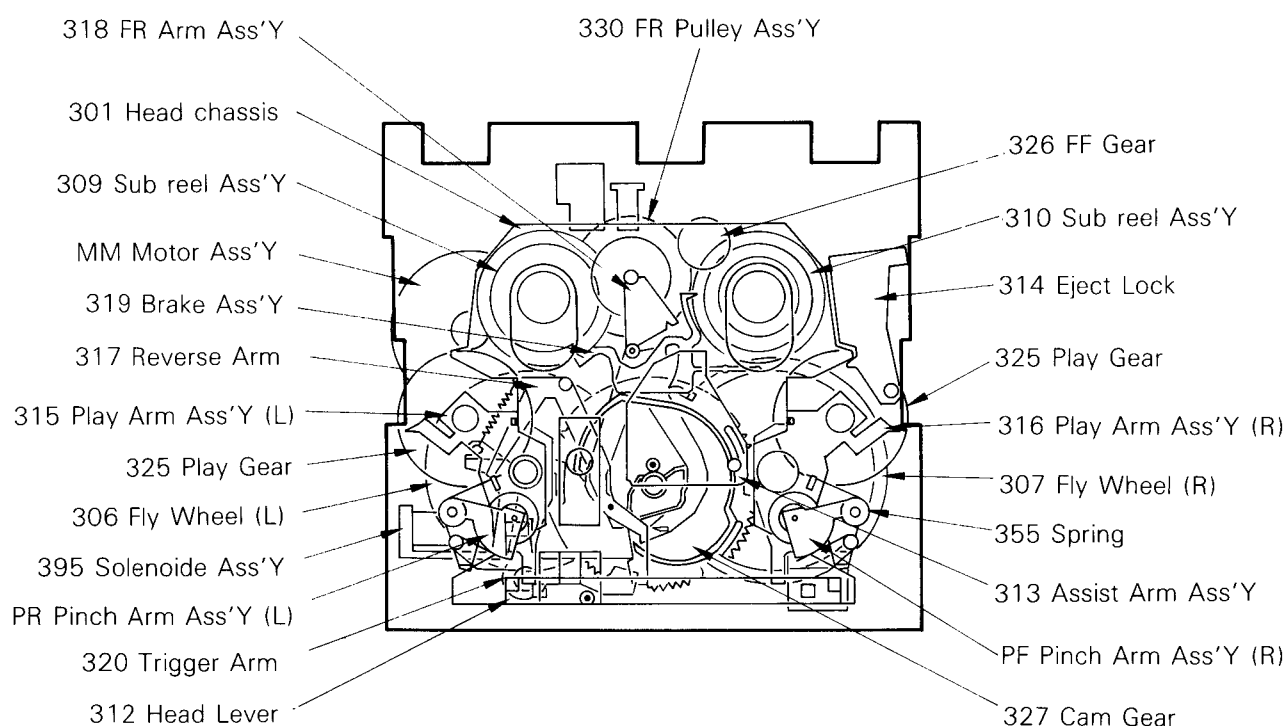
PLAY → STOP → CUE

RVS PLAY to RVW

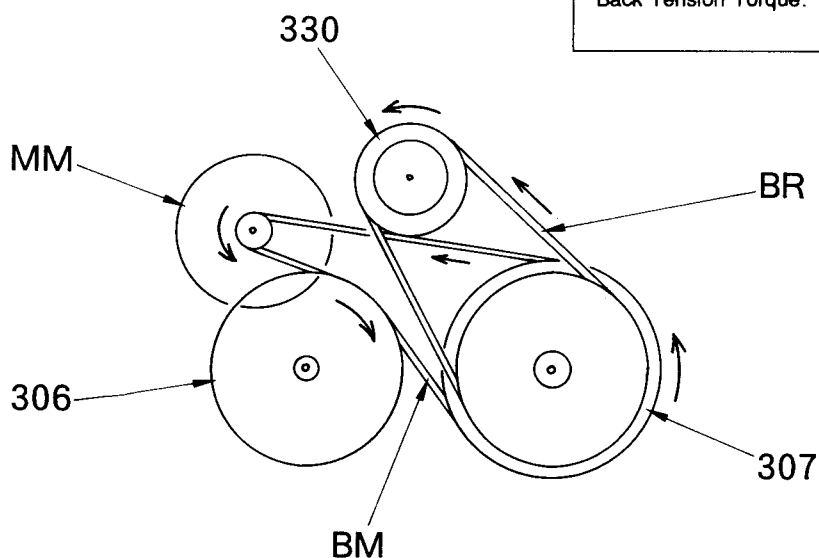


PLAY → STOP → RVW

MECHANISM DESCRIPTION

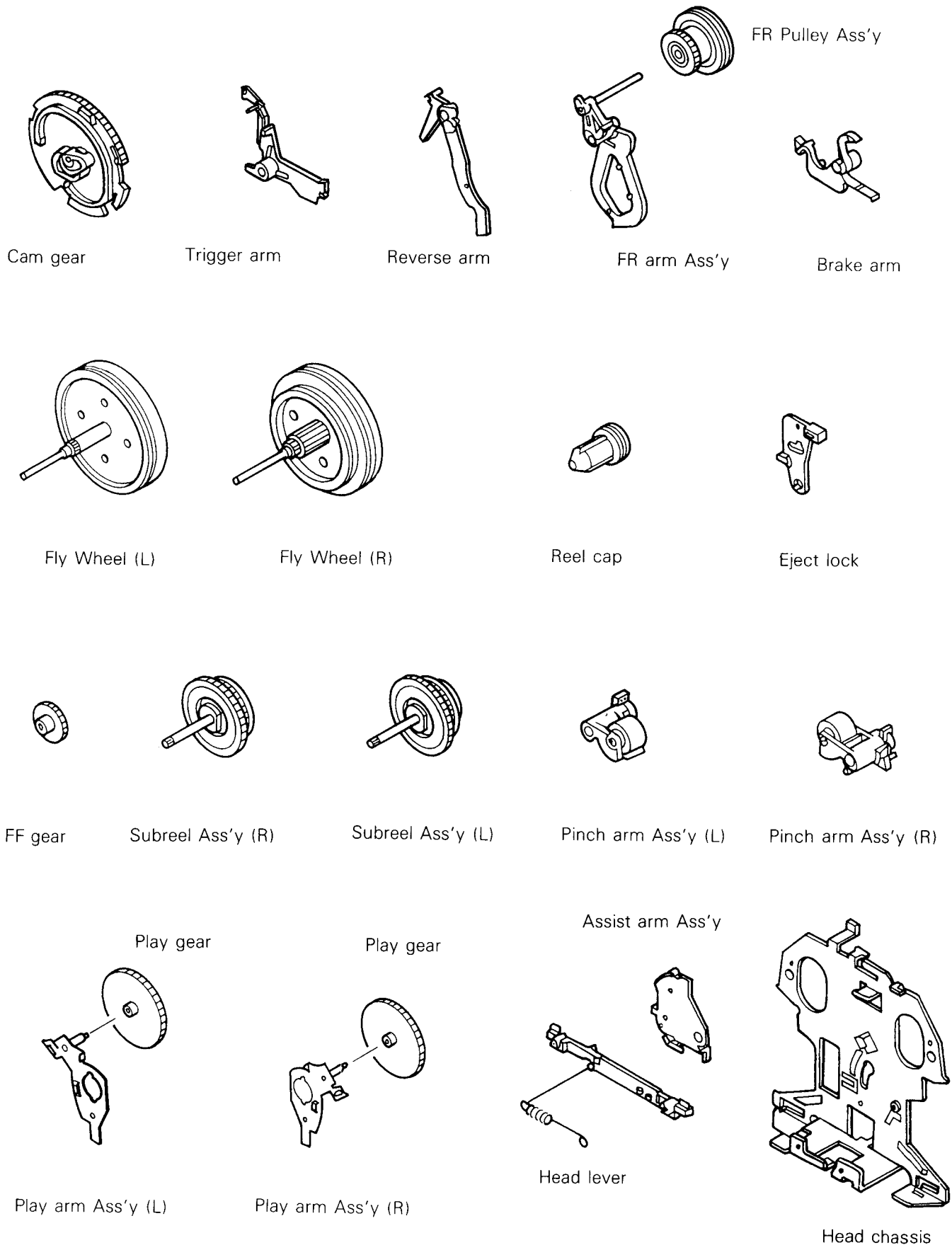


Take-up Torque:	35~70 g · cm
FF. REW Torque:	80~170 g · cm
Back Tension Torque:	2~6 g · cm



KX-W6050

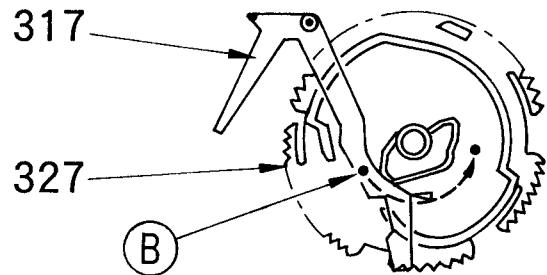
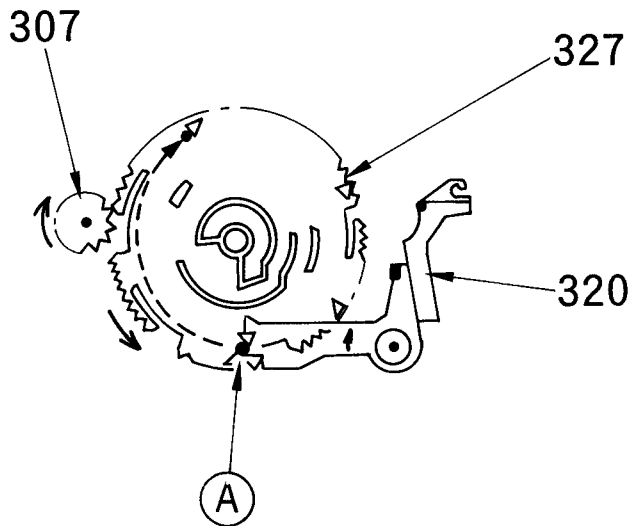
MECHANISM DESCRIPTION



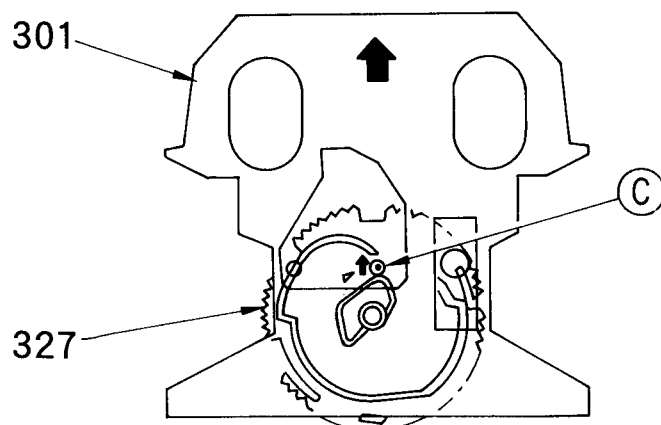
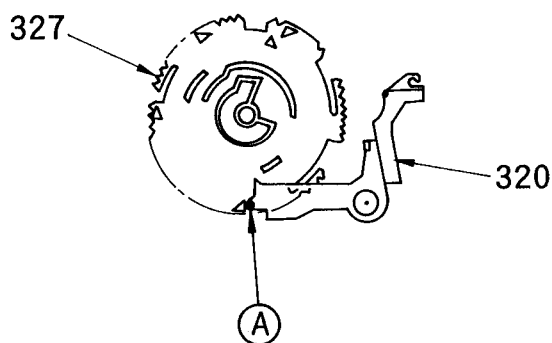
MECHANISM DESCRIPTION

FWD PLAY/REC

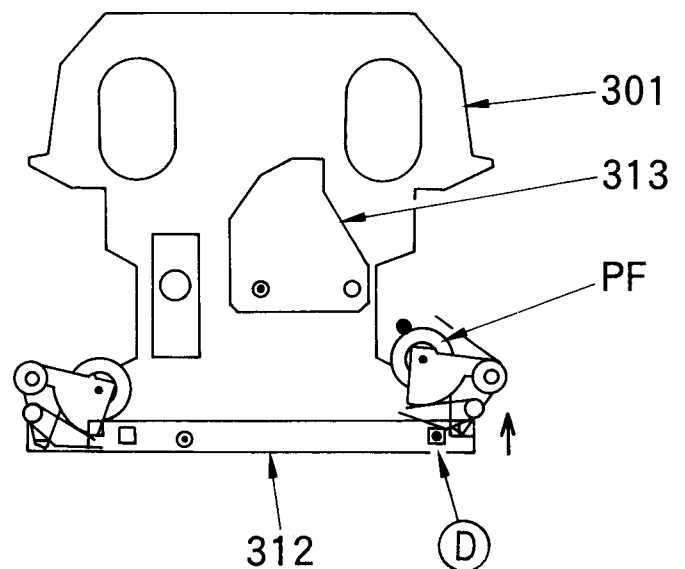
- ① The plunger turns ON for 30 ms, and turns OFF immediately.
- ② The boss (A) on the trigger arm comes off the stopper, and the cam gear begins to rotate.
- ③ The boss (B) on the rear arm passes through the inner side of on the cam gear.



- ④ The cam of the cam gear pushes the boss (C) on the assist arm ASS'Y up, and the rotation of the cam gear is stopped by the boss (A) on the trigger arm and gets at the FWD PLAY/REC position.



- ⑤ Since the assist arm ASS'Y is fixed on the head chassis, the head chassis also rises up to the FWD PLAY/REC position.
- ⑥ The pinch roller (R) at the FWD side is also pushed up by the boss (D) of the head lever on the head chassis, and touches the capstan.

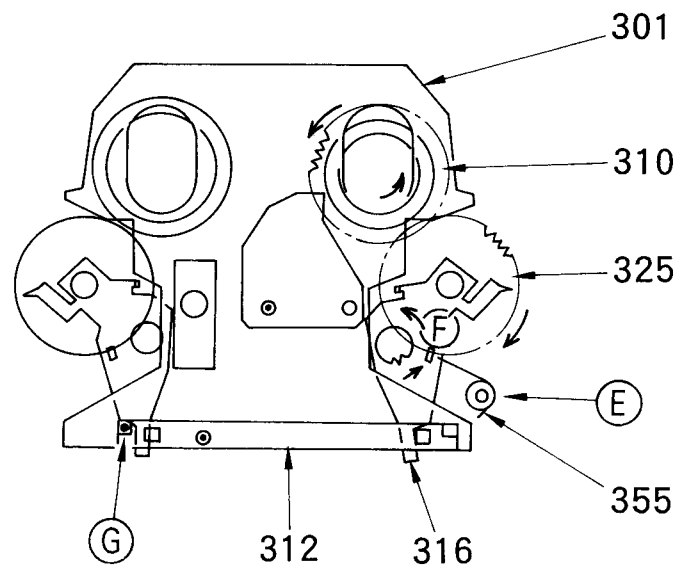


KX-W6050

MECHANISM DESCRIPTION

- ⑦ Since the play arm ASS'Y (R) becomes free as a result of the rise of the head chassis, it is rotated in the arrow direction (E) by the spring (E), and the play gear is engaged with the gear of the sub-reel ASS'Y (R), thereby transmitting the rotation of the flywheel R to the reel (R).

The play arm ASS'Y of the L-side also becomes free from the head chassis, but it does not rotate because it is in contact with the boss (G) of the head lever.



RVS PLAY/REC

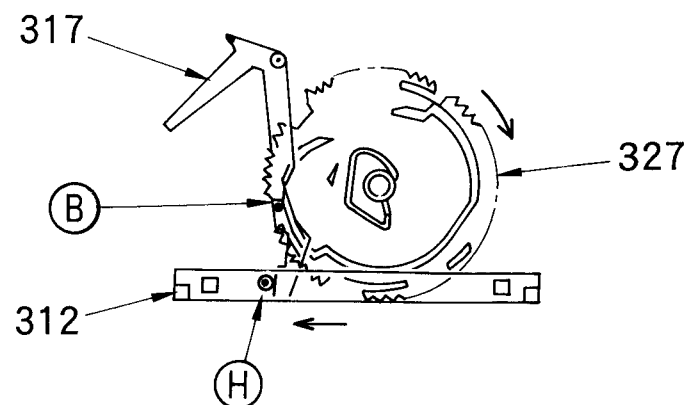
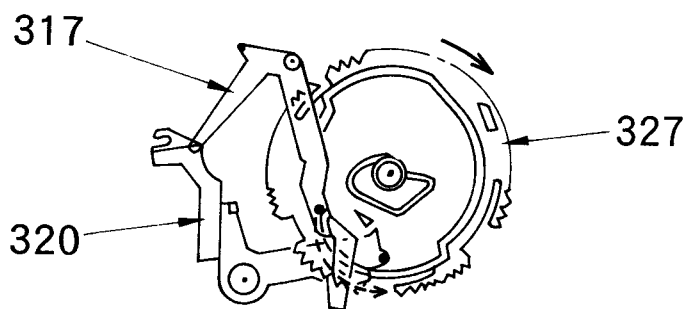
- ① The plunger turns ON for 100 ms.
- ② The boss on the trigger arm comes off, and the cam gear begins to rotate.

Since the trigger arm is pulled by the plunger for 100 ms, the boss (B) on the reverse arm passes through the outer side of the cam on the cam gear.

- ③ Since the reverse arm also moves concurrently with the rotation of the cam gear and pushes the boss (H) on the head bar, the head rotates.

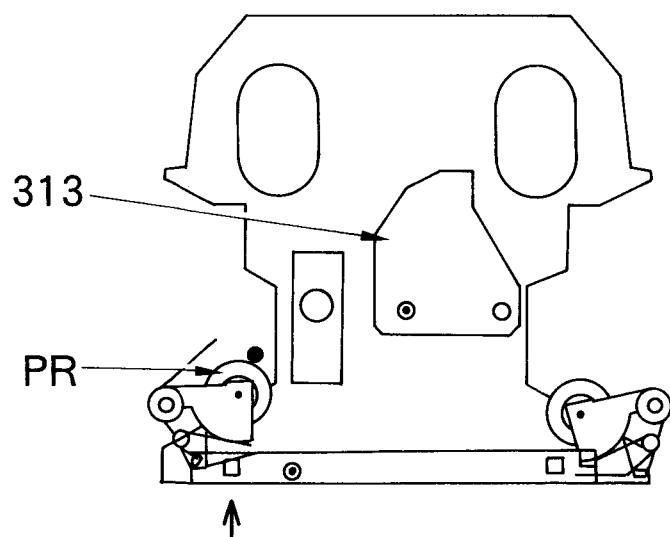
(Schematics of the head rotation)

- ④ The head chassis rises in the same way as in the forward play, and is fixed at the RVS PLAY/REC position.

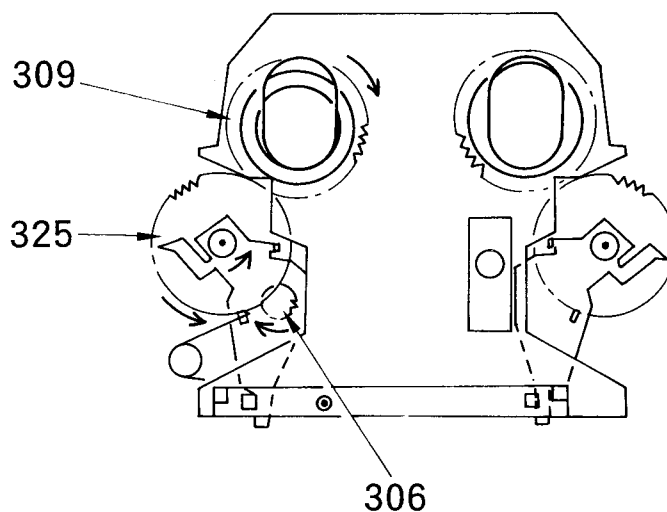


MECHANISM DESCRIPTION

- ⑤ When the head lever moves, the pinch roller (L) is pushed up.

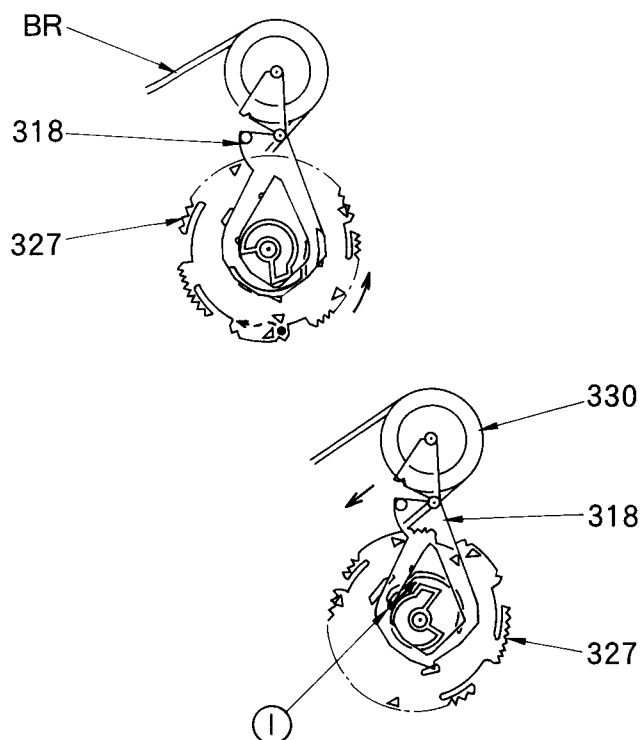


- ⑥ The play gear is engaged with the gear of the sub-reel ASS'Y and the rotation of the flywheel (L) is transmitted to the reel (L).



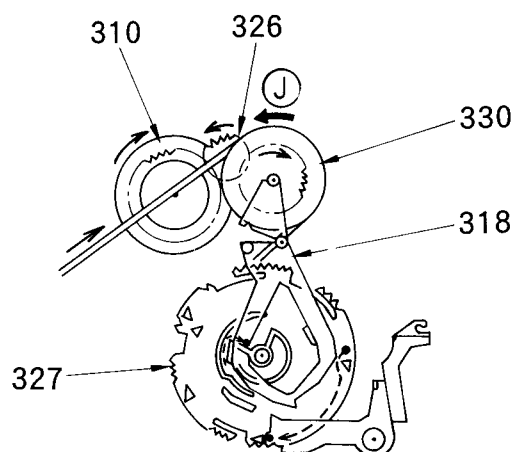
FF

- ① The plunger turns ON for 30ms.
 - ② The cam gear begins to rotate.
 - ③ The FR arm ASS'Y is pulled to the arrow direction by the belt of the FR pulley ASS'Y.
- As a result, the boss ① on the FR arm ASS'Y passes through the innermost circumference trajectory on the cam gear.



- ④ After 420 ms the plunger is turned ON once again for 30 ms and passes over the stopper, the cam gear continues to rotate, and is held at the next stopper position.

At that time the FR arm ASS'Y also moves in the arrow direction ④, the gear of the FR pulley ASS'Y and the gear of the sub-reel ASS'Y (R) are engaged with the FF gear, the reel (R) is rotated, and as a result the mechanism gets in the FF mode.

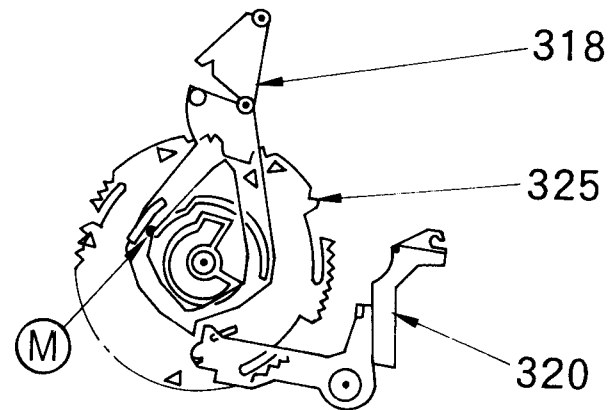
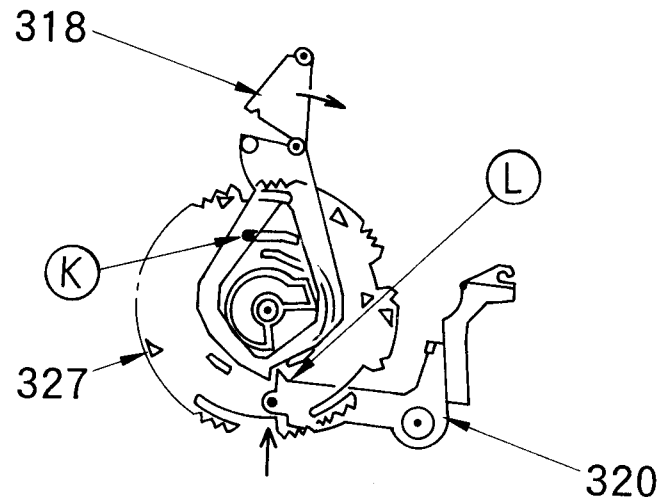
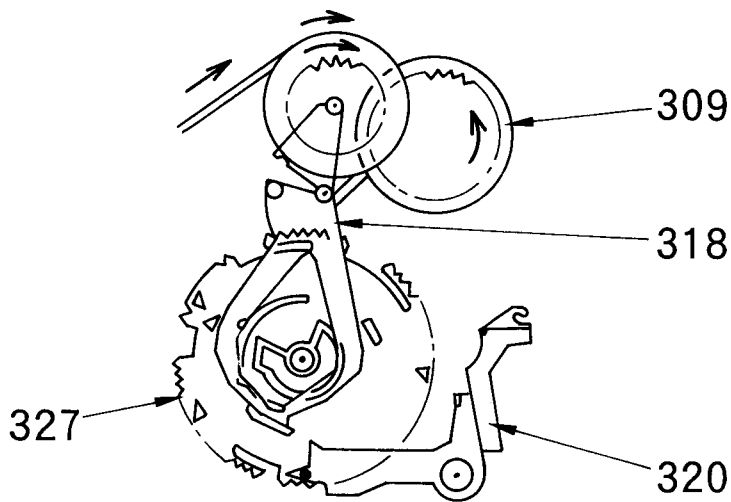


KX-W6050

MECHANISM DESCRIPTION

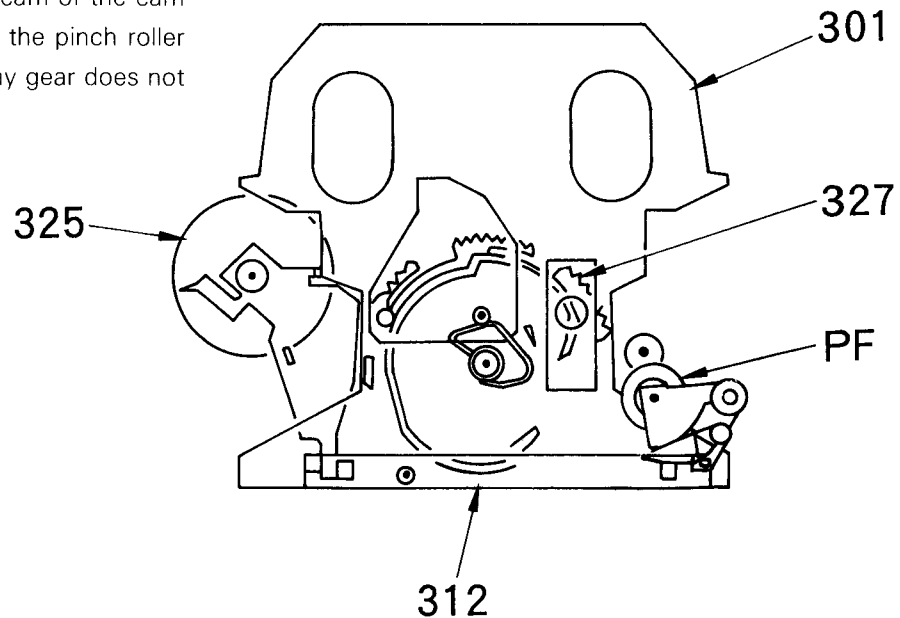
RWD

1. The plunger turns ON for 30 ms, and the cam gear begins to rotate.
2. After 250 ms the plunger turns ON once again for 250 ms, but since the FR arm ASS'Y is tilted to the arrow direction by the boss (K) at that time, the FR arm ASS'Y is held by the projection (L) of the trigger arm, it is further tilted to the sub-reel ASS'Y (L) direction by the boss (M), and the reel (L) rotates, thereby switching the operation of the mechanism to the RWD mode.



FF/RWD

The head chassis is also raised by the cam of the cam gear, but it is held at a position where the pinch roller does not touch the capstan and the play gear does not touch the reel ASS'Y.



MECHANISM DESCRIPTION

PLAY/REC → STOP

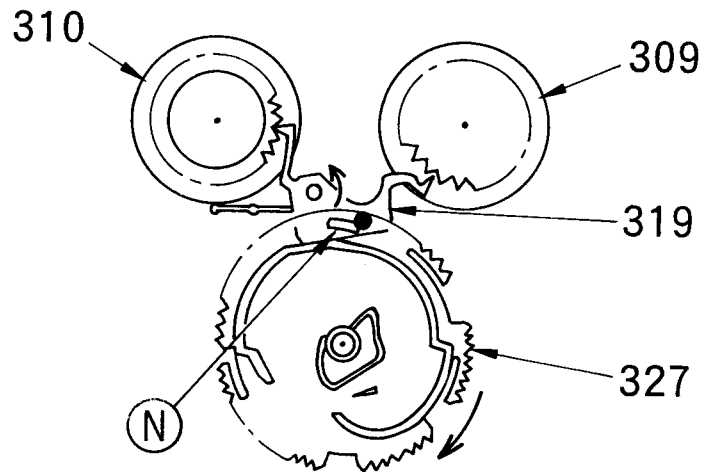
- ① The plunger turns ON for 30 ms.
- ② After 120 ms the plunger turns ON once again and is kept ON for 270 ms in the FWD mode and for 400 ms in the RVS mode, and the cam gear rotates up to the STOP position.

FF/RWD → STOP

- ① The plunger turns ON for 210 ms, and the cam gear rotates up to the STOP position.

BRAKE

- ① Since the brake arm is rotated in the arrow direction by the boss (N) on the cam gear, the gear of the reel ASS'Ys (L) and (R) are stopped for approximately 40 ms immediately before the STOP position.



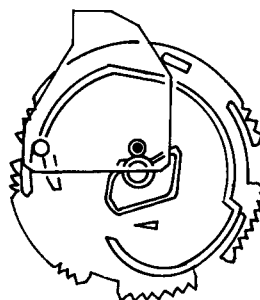
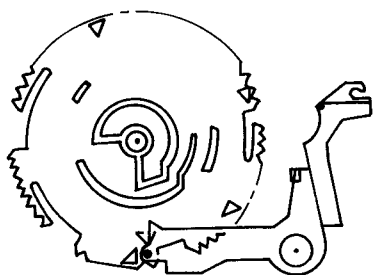
CUE/REVIEW

The cam gear mechanism is returned once from the PLAY state to the STOP position, and then it is carried once again to the CUE/REVIEW position by the plunger.

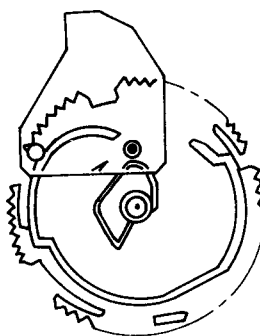
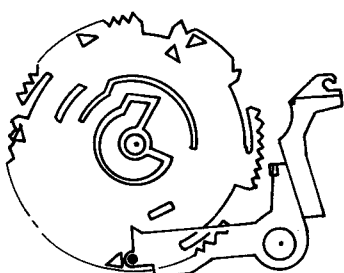
KX-W6050

MECHANISM DESCRIPTION

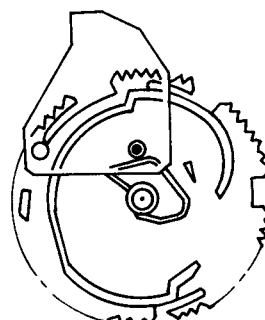
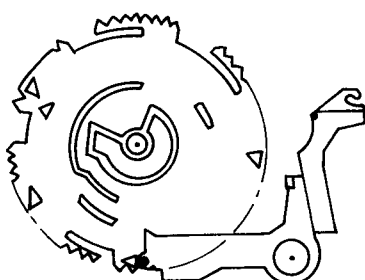
POSITION OF THE CAM GEAR IN THE VARIOUS MODES.



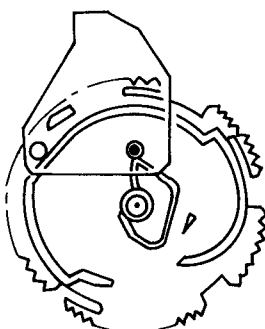
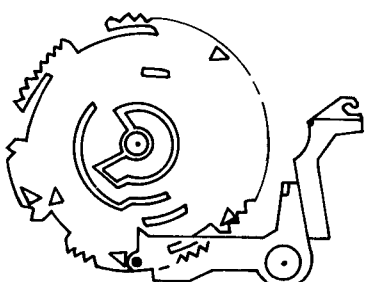
STOP



PLAY/REC



FF/RWD



CUE/REVIEW

ADJUSTMENT

Order	Item	Input setting	Output setting	Deck settin	Adjustment points	Adjustment method	Fig.
Unless otherwise specified, set the respective switches as folllosw: TAPE: NORMAL DOLBY: OFF INPUT: LINE							
I. Cassette mechanism section (Recording/play head adjustment)							
(1)	Degaussing and cleaning	—	—	Power: off, Degaussing, cleaning, PLAY	Recording heads, Erase heads, Capstans, Pinch rollers	Degauss the record- ing/play heads by a head eraser. Clean the recording/play heads, erase heads capstans and pinch rollers by a cotton swab soaked with alcohol.	
(2)	Recording/play head azimuth	SCC-1727, TCC-153, MTT-114, 10 kHz, – 10 dBs	(B)	PLAY	Azimuth adjust- ment screw	Maximize the output and adjust so that the Lissajous figure nears a line slanted 45°	(a)
II. Printed circuit board adjustment Note: First perform the double-speed adjustment.							
(1)	Tape speed (double)	SCC1727 TCC-110 MTT-114 3 kHz	(B)	TEST MODE 4 → 3 short AC PLUG CON- NECT TO AC OUTLET	A DECK: VR51 B DECK: VR53	Adjust so that the fre- quency is 6 kHz at the tape center.	
(2)	Tape speed (normal)	SCC1727 TCC-110 MTT-111 3 kHz	(B)	FF KEY HI- SPEED F. PLAY NOR SPEED KEY	A DECK: VR50 B DECK: VR52	Adjust so ;that the frequency is 3 kHz at the tape center.	
III. Printed circuit board adjustment							
(1)	Playback level	MTT-150 400 Hz	(B)	PLAY	A DECK: VR1 (L) VR2 (R) B DECK: VR3 (L) VR4 (R)	Adjust that the play- back output is – 1 dBs	
		MTT-256, SCC1727 315 Hz (160 mWb/m)				Adjust that the play- back output is – 4 dBs	
		MTT-256U, TCC-160 315 Hz (250 mWb/m)				Adjust that the play- back output is – 0 dBs	
(2)	Bias current	1 kHz – 20 dBs	(B)	Adjust electronic volume so that the recording monitor output becomes – 20 dBs at 1 kHz, and record and play 1 kHz adn 10 kHz alter- nately.	A DECK: VR5 (L) VR6 (R) B DECK: VR7 (L) VR8 (R)	Record 1 kHz and 10 kHz reciprocally, and adjust so that they are identical in pplay- back level.	
(3)	RECORD LEVLE	1 kHz – 10 dBs	(B)	1 kHz – 10 dBs	A DECK (L): VR11 (R): VR12 B DECK (L): VR13 (R): VR14	Adjust the rairable resistor so that t playing level at – 10 dBs is obtained.	
(4)	BIAS OSCILAT- ING FREQUENCY	Load the non recorded tapes on Deck A and B.	Connect the fre- quency counter between E. H & GND on Deck A, between E. H & GND on Deck B.	REC	DECK A: L20 DECK B: L21	Adjust so that the fre- quency counter shows 105 kHz.	
(5)	BIAS LEAK	Load a the non	(B)	Load a metal tape. and dub in a high speed mode.	L9 (L) L10 (R)	Minimum (Point)	

KX-W6050

REGLAGE

Ordre	Sujet	Réglage d'entrée	Réglage de sortie	Réglage de platine	Points d'ajustement	Méthode d'ajustement	Figure
A moins, de spécification contraire, régler les commutateurs respectils comme suit: TAPE: NORMAL DOLBY: OFF INPUT: LINE I. Section de mécanisme de cassette (ajustement de tête d'enregistrement/lecture)							
(1)	Démagnétisation et nettoyage	—	—	Alimentation coupée, démagnétisation, nettoyage, lecture	Têtes d'enregistrement, têtes d'effacement, cabestans, galets presseur	Démagnétiser les têtes d'enregistrement/lecture avec un seffaceur de tête. Nettoyer les têtes d'enregistrement/lecture, les têtes d'effacement, les cabestans et les galets presseur avec un coton-tige trempé dans de l'alcool.	
(2)	Azimet de tête d'enregistrement/lecture	SCC-1727, TCC-153, MTT-114, 10 kHz, - 10 dBs	(B)	PLAY	Vis d'ajustement de l'azimet	Maximiser la sortie et ajuster pour que la figure de Lissajous s'approche d'une ligne inclinée sur 45°	(a)
II. Ajustement de la plaquette de circuits imprimés. Note: Commencer par effectuer le réglage de la vitesse double.							
(1)	Vitesse de bande (double)	SCC1727 TCC-110 MTT-114 3 kHz	(B)	MODE TEST 4 → 3 reliées FICHE SECTEUR BRANCHEE A UNE PRISE DE COURANT TOUCHE FF	A DECK: VR51 B DECK: VR53	Ajuster pour que la fréquence soit 6 kHz au centre de bande	
(2)	Vitesse de bande (normale)	SCC1727 TCC-110 MTT-111 3 kHz	(B)	GRANDE VITESSE TOUCHE DE LECTURE AVANT VITESSE NORMALE	A DECK: VR50 B DECK: VR52	Ajuster pour que la fréquence soit 3 kHz au centre de bande.	
III. Ajustement de la plaquette de circuit imprimé.							
(1)	Niveau de lecture	MTT-150 400 Hz	(B)	PLAY	A DECK: VR1 (L) VR2 (R) B DECK: VR3 (L) VR4 (R)	Ajuster pour que la sortie de lecture soit de - 1 dBs	
		MTT-256, SCC1727 315 Hz (160 mWb/m)				Ajuster pour que la sortie de lecture soit de - 4 dBs	
		MTT-256U, TCC-160 315 Hz (250 mWb/m)				Ajuster pour que la sortie de lecture soit de - 0 dBs	
(2)	Courant de polarisation	1 kHz - 20 dBs	(B)	Ajuster les VR électroniques pour que la sortie de contrôle d'enregistrement soit de - 20 dBs à 1 kHz puis enregistrer 1 kHz et 10 kHz réciproquement et les lire.	A DECK: VR5 (L) VR6 (R) B DECK: VR7 (L) VR8 (R)	Enregistrer 1 kHz et 10 kHz réciproquement et ajuster pour qu'ils et ajuster pour qu'ils soient identiques au niveau de lecture.	
(3)	Niveau d'enregistrement (LEVEL)	1 kHz - 10 dBs	(B)	1 kHz - 10 dBs	A DECK (L): VR11 (R): VR12 B DECK (L): VR13 (R): VR14	Régler la résistance variable pour obtenir un niveau de lecture de - 10 dB.	
(4)	FREQUENCE D'OSCILLATION DE POLARISATION	Mettre en place des cassettes non enregistrées dans les platines A et B	Raccorder le compteur de fréquence entre E. H et GND de la platine A. entre E. H et GND de la platine B.	Enregistrement	DECK A: L20 DECK B: L21 (X28-1380-01)	Régler de manière à ce que le compteur de fréquence indique 105 kHz.	
(5)	FUITE DE POLARISATION	Mettre en place une cassette non enregistrée dans la platine A	(B)	Mettre en place une bande metal et copier en mode de vitesse élevée.	L9 (L) L10 (R)	Minimum (Point)	

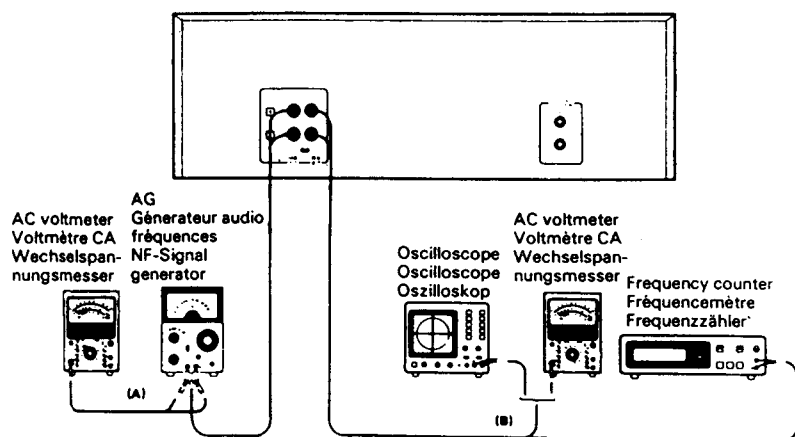
ABGLEICH

Rel- henfo- lge	Gegenstand	Eingangs- Einstellung	Ausgangs- Einstellung	Deck-Einstellung	Abgleichpunkte	Abgleichmethod	Ab- lildung
Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen: TAPE: NORMAL DOLBY: OFF INPUT/ LINE I. Kassettenmechanismus-Teil (Einstellung des Aufnahme-/Wiedergabekopfes)							
(1)	Entmagnetisierung und Reinigung	—	—	Ausschalten, Entmagnetisierung. Reinigung, Wiedergabe	Aufnahmeköpfe Löschköpfe, Tonwellen, Andruckrollen	Die Aufnahme-/Wiedergabeköpfe mit einem Tonkopf-Entmagnetisierer entmagnetisieren. Die Aufnahme-/Wiedergabeköpfe, die Löschköpfe, die Tonwellen und die Andruckrollen mit einem mit Alkohol befeuchteten Watteestäbchen reinigen.	
(2)	Azimuth des Aufnahme-/Wiedergabekopfes	SCC-1727, TCC-153, MTT-114, 10 kHz, - 10 dBs	(B)	PLAY	Azimuth-Einstellschraube	Den Ausgang maximieren und so einstellen, daß die Lissajousfigur sich einer um 45° geneigten Linie annähert.	(a)
II. Leiterplatten-Einstellung. Hinweis: Zuerst die Doppelgeschwindigkeitseneilung durchführen.							
(1)	Bandgeschwindigkeit (doppelt)	SCC1727 TCC-110 MTT-114 3 kHz	(B)	TEST-MODUS [4] → [3] kurz NETSTECKER-ANSCHL AN NETZ-STECKDOSE FF KEY HIGH-SPEED F. PLAY KEY NOR-SPEED	A DECK: VR51 B DECK: VR53	So einstellen, daß die Frequenz in der Bandmitte 6 kHz beträgt	
(2)	Bandgeschwindigkeit (normale)	SCC1727 TCC-110 MTT-111 3 kHz	(B)		A DECK: VR50 B DECK: VR52	So einstellen daß die Frequenz in der Bandmitte 3 kHz beträgt	
III. Leiterplatten-Einstellung (X28-2300)							
(1)	Wiederbepegel	MTT-150 400 Hz MTT-256, SCC1727 315 Hz (160 mWb/m) MTT-256U, TCC-160 315 Hz (250 mWb/m)	(B)	PLAY	A DECK: VR1 (L) VR2 (R) B DECK: VR3 (L) VR4 (R)	So einstellen, daß der Wiedergabe-Ausgang - 1 dBs beträgt So einstellen, daß der Wiedergabe-Ausgang - 4 dBs beträgt So einstellen, daß der Wiedergabe-Ausgang - 0 dBs beträgt	
(2)	Vormagnetisierungsstrom	1 kHz - 20 dBs	(B)	Die elektronischen Regewiderstände so einstellen, daß der Aufnahme-monitor-Ausgang - 20 dBs bei 1 kHz beträgt, dann 1 kHz und 10 kHz abwechselnd aufnehmen und wiedergeben.	A DECK: VR (5L) VR (6R) B DECK: VR (7L) VR (8R)	1 kHz und 10 kHz abwechselnd aufnehmen und so einstellen, daß sie im Wiedergabepegel identisch sind.	
(3)	AUFNAHMEPEGEL	1 kHz - 10 dBs	(B)	1 kHz - 10 dBs	A DECK (L): VR11 (R): VR12 B DECK (L): VR13 (R): VR14	Den Stellwiderstand so einstellen, daß ein Wiedergabepegel von - 10 dBs erhalten wird	
(4)	VORMAGNETISIERUNGS-OSZILLATIONS-FREQUENZ	Unbespielte Kassetten in Deck A und B einsetzen.	Den Frequenzzähler zwischen E. H und GND von Deck A und zwischen E. H und GND von Deck B anschließen.	REC	DECK A: L20 DECK B: L21	So einstellen. daß 105 kHz auf dem Frequenzzähler angezeigt wird.	
(5)	VORMAGNETISIERUNGSSTREUUNG	Eine unbespielte kassette in Deck A einsetzen.	(B)	Eine Metal I band-kassette einsetzen und mit hoher Geschwindigkeit Überspielen.	L9 (L) L10 (R)	Minimum (Punkt)	

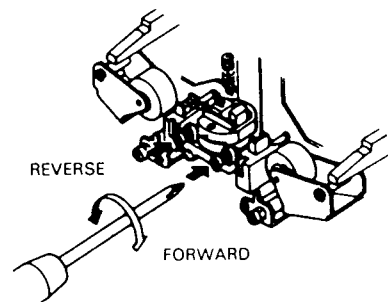
KX-W6050

ADJUSTMENT/REGLAGE/ABGLEICH

SYSTEM CONNECTIONS

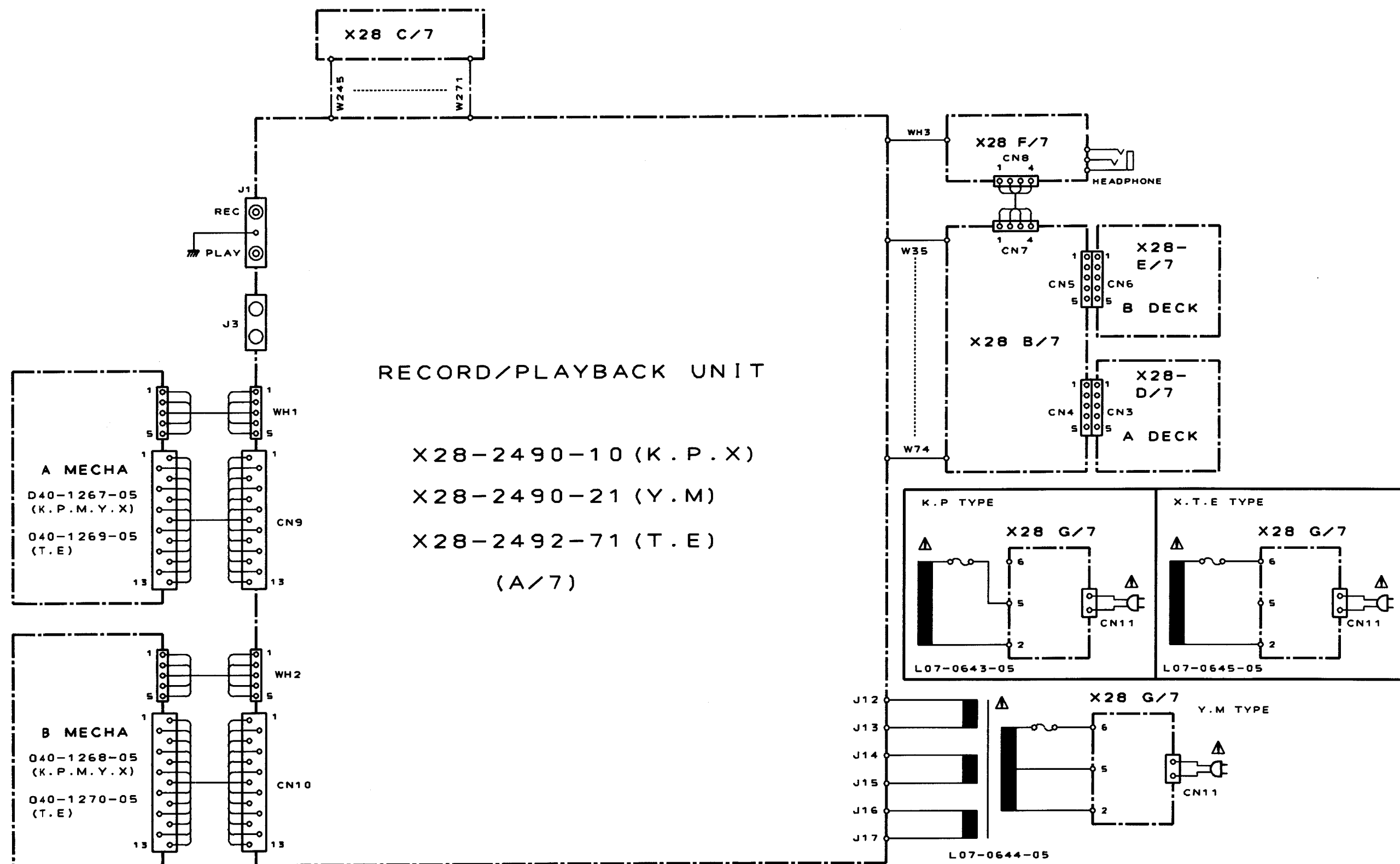


(a) AZIMUTH ADJUSTMENT SCREW



KX-W6050 KX-W6050

WIRING DIAGRAM



2

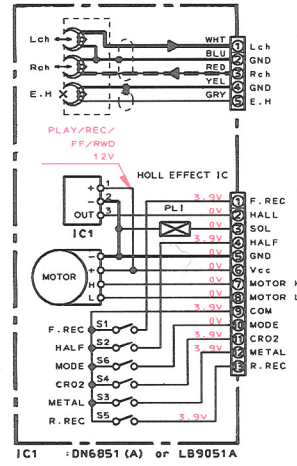
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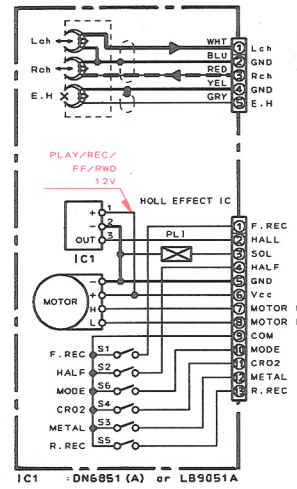
6

7

DECK A
D40-1267-05 KPVMX TYPE
D40-1269-05 TE TYPE



DECK B
D40-1268-05 KPVMX TYPE
D40-1270-05 TE TYPE



IC1 :CXP82324-1260
IC2.3 :TA8125S
IC4 :XRU4052B
IC5 :APC1297CA
IC6 :PST529D
IC7 :XRA17812T

IC8 :XRA17815T
IC9 :HA12157NTA
IC10 :XRA15218-DX
ED1 :or NJM4565D-D
BJ128GK

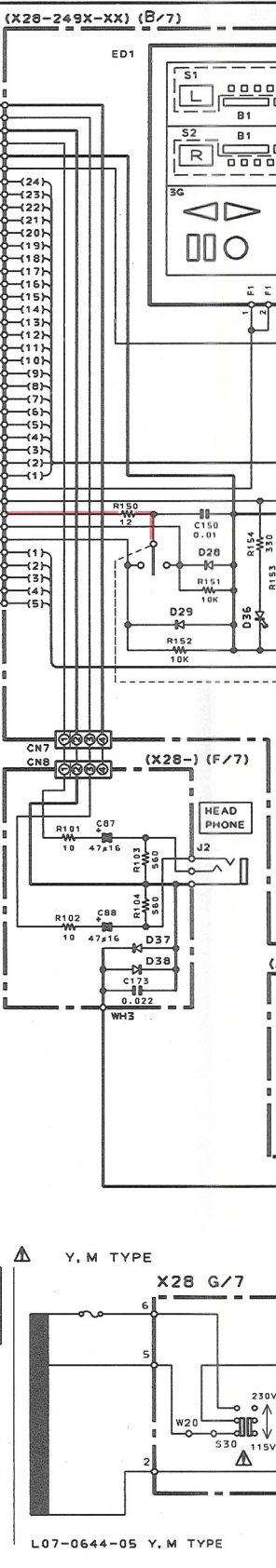
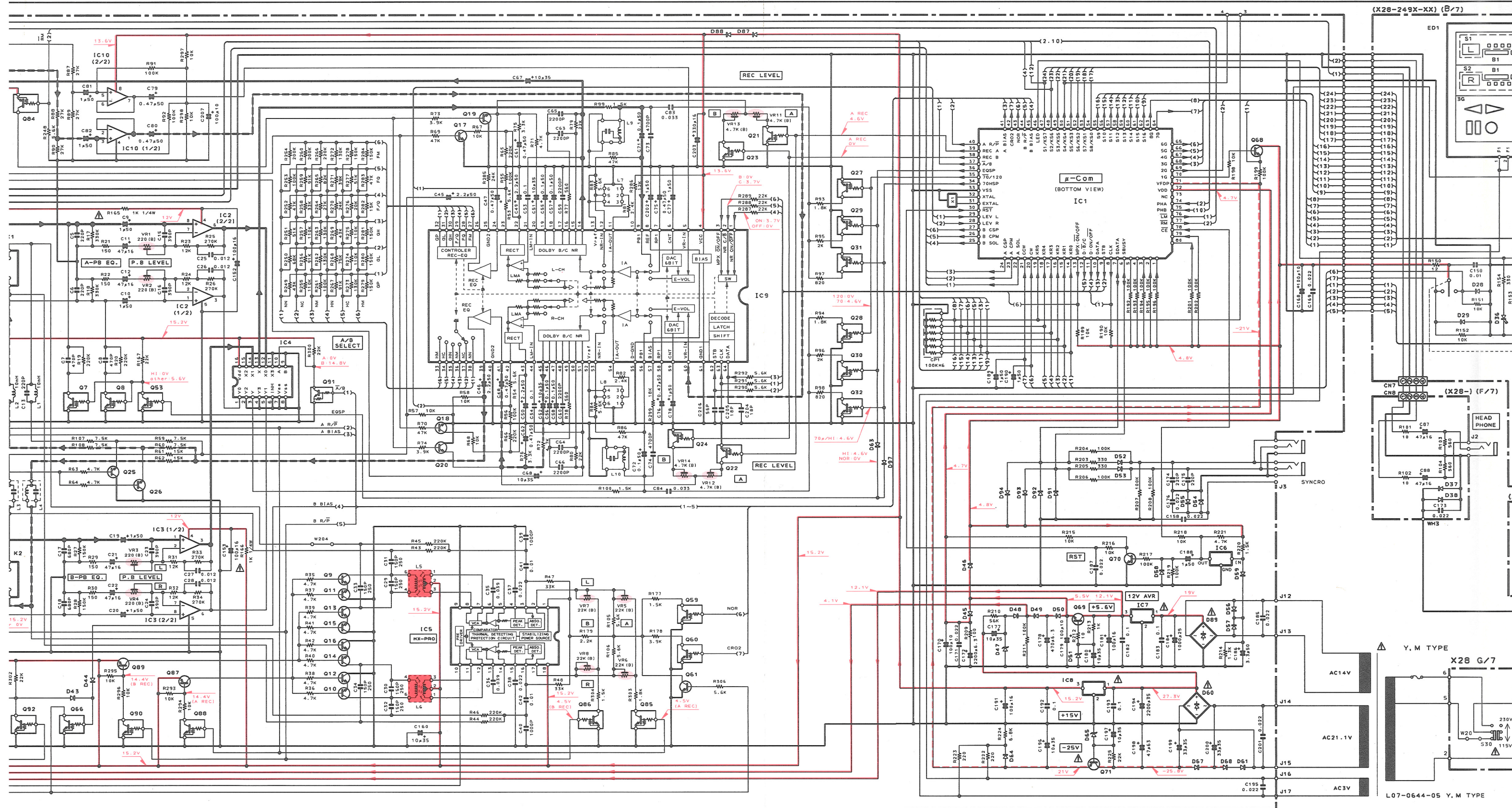
Q1~4, 19, 20, 61 :2SD1302 (S, T)
Q5, 6, 9~16 :2SC1845 (F, E)
Q7, 8, 21~24, 27~32 :UN4212 or DTC124ES
51~53, 59, 60, 65, 66 :2SC1845 (F, E)
72, 73, 77~79, 83, 85 :UN4212 or DTC124ES
86, 88, 90, 91

Q17, 18, 25, 26 :2SC1740S (Q, R)
54, 55, 62, 63 :or 2SC3311A (Q, R)
68, 70 :2SC1740S (Q, R)
Q50, 58, 84 :2SC3940A (R, S)
Q56, 64, 69 :2SC3940A (R, S)
Q57, 92 :UN4216 or DTC143TS

Q71 :2SA1123 (R, S)
Q74, 75, 80, 81 :2SA1534A (R, S)
Q76, 82 :2SA933S (Q, R)
Q87, 89 :2SA1309A (Q, R)
Q88 :2SA992 (F, E)

D1~29, 37~45, 48~50 :1SS133 or HSS104
52~59, 61~63, 67~69 :1SS133 or HSS104
71, 74~78, 80, 83~88 :1SS133 or HSS104
91~96, 97 :1SS133 or HSS104
D30~35, 46, 73, 82 :RB721Q

DC v
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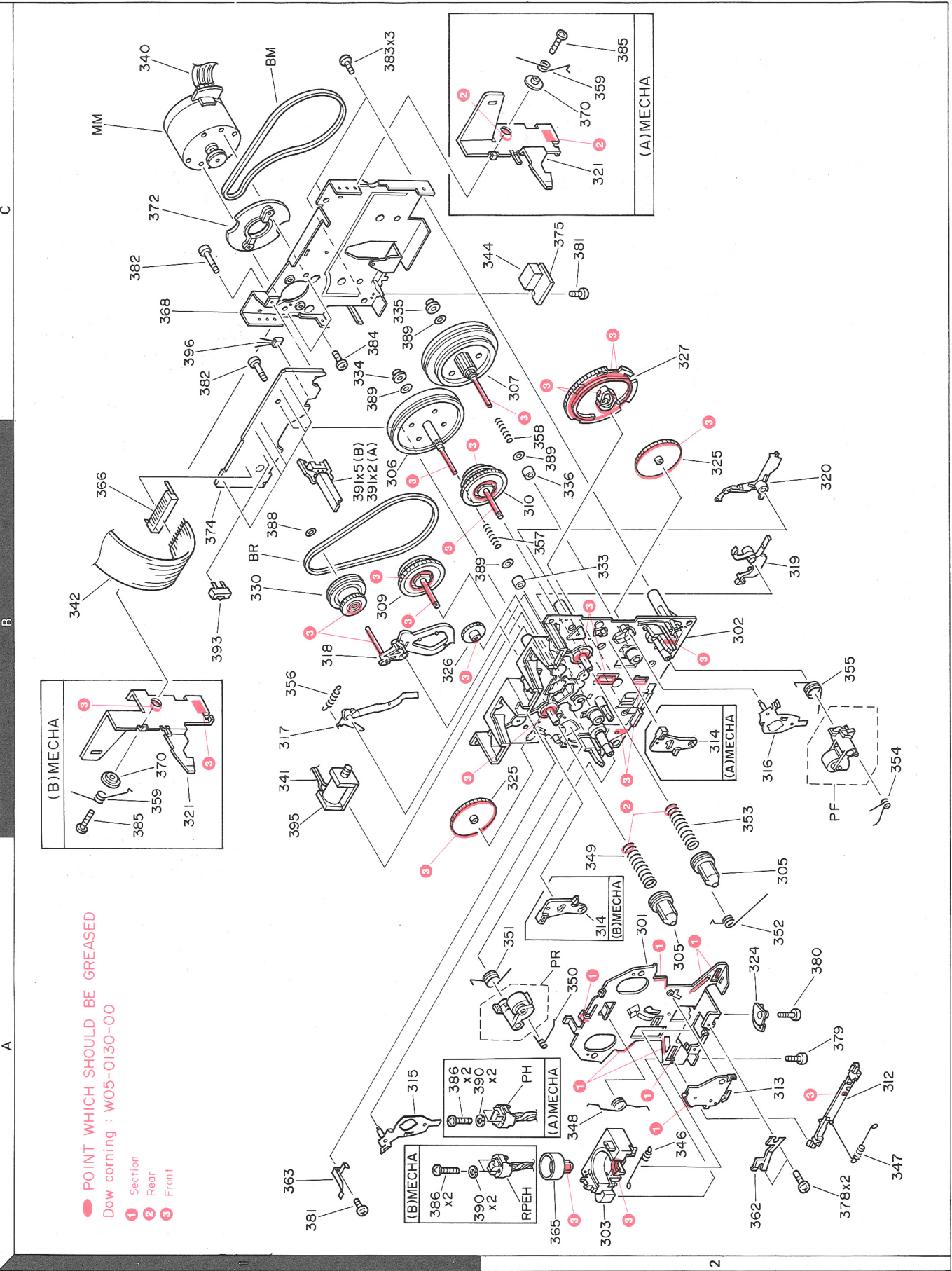
2SD1302 (S, T)	Q17, 18, 25, 26	2SC1740S (Q, R)	Q71	2SA1123 (R, S)	D1~29, 37~45, 48~50	1SS133 or HSS104	D36	B30-1291-05	DESTINATION	UNIT NAME
2SC1845 (F, E)	54, 55, 62, 63	or 2SC3311A (Q, R)	Q74, 75, 80, 81	2SA1534A (R, S)	52~59, 61~63, 67~69		D47, 64, 66	RD3.9ES (B2)	COUNTRY	ABB.
UN4212 or DTC124ES	68, 70		Q76, 82	2SA933S (Q, R)	71, 74~78, 80, 83~88			or HZS3.9N (B2)	U S A	K
	Q50, 58, 84	UN4112 or DTA124ES		or 2SA1309A (Q, R)	91~96, 97	RB721Q	D51	RD6.2ES (B2)	CANADA	P
	Q56, 64, 69	2SC3940A (R, S)	Q87, 89	2SA992 (F, E)	D30~35, 46, 73, 82		D60	KBP02ML-612 or RBV-402LFA	EUROPE	Y
	Q57, 92	UN4216 or DTC143TS					D65	RD24ES (B) or HZS24N (B)	OTHER AREAS	M
							D70, 72, 79, 81	SS5688B or 1SR139-100	AUSTRALIA	X
							D89	D3SBA20F03	ENGLAND	T
									EUROPE	E

DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

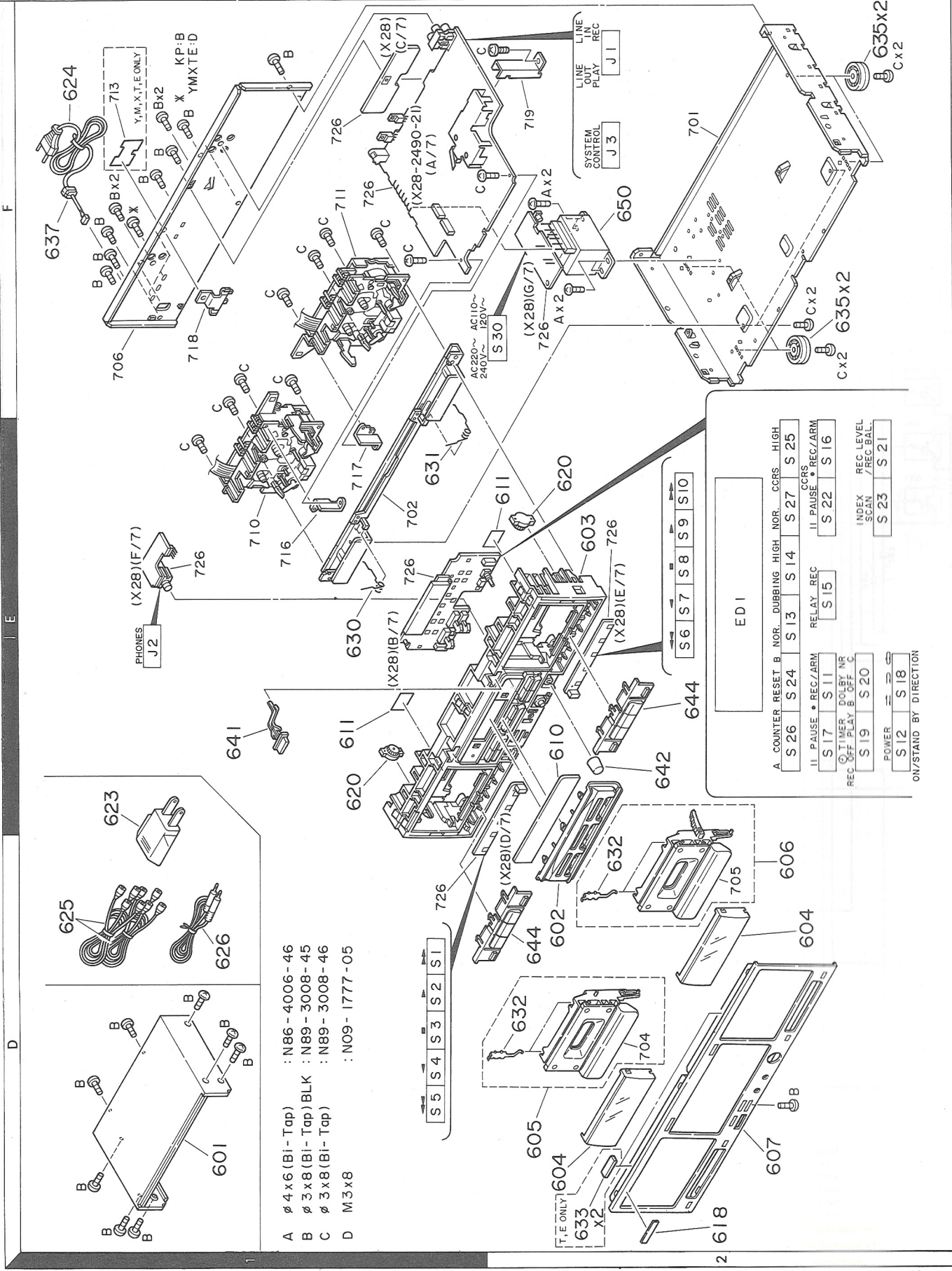
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode de lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte der Wiedergabe in Spannungsmeßer gemessen. Dabei werden aufgrund von Unterschieden in strumenten oder Geräten u. U. geringf Gleichspannungswerte der Vorm wurden in der Aufnahme-Betriebsart ge

EXPLODED VIEW (MECHANISM UNIT)



EXPLODED VIEW (UNIT)



PARTS LIST

※ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

RECORD/PLAYBACK UNIT


Unit No.	Destination
X28-2490-10	K, P, X
X28-2490-21	Y, M
X28-2490-71	T, E

MECHANISM ASSEMBLY

D40-1267-05	A DECK : K, P, Y, M, X
D40-1268-05	B DECK : K, P, Y, M, X
D40-1269-05	A DECK : T, E
D40-1270-05	B DECK : T, E

Ref. No.	Address	New Parts	Parts No.	Description	Desti-nation	Re-marks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
KX-W6050						
601	1D	*	A01-3018-01	METALLIC CABINET	KPVMX TE	
601	1D	*	A01-3031-01	METALLIC CABINET		
602	2D	*	A21-1824-03	DRESSING PANEL		
603	2E	*	A22-1603-11	SUB PANEL		
604	2D	*	A53-1383-14	CASSETTE LID	KPVMX TE	
605	2D	*	A53-1384-03	CASSETTE HOLDER ASSY		
606	2D	*	A53-1386-03	CASSETTE HOLDER ASSY		
607	2D	*	A60-0325-02	PANEL		
607	2D	*	A60-0367-02	PANEL		
610	2E	*	B03-2806-03	DRESSING PLATE	K Y	
611	1E, 2E		B07-1720-04	ESCUTCHEON		
618	2D		B43-0287-04	KENWOOD BADGE		
-			B46-0092-13	WARRANTY CARD		
-			B46-0094-03	WARRANTY CARD	Y X P E T	
-			B46-0095-03	WARRANTY CARD		
-			B46-0096-33	WARRANTY CARD		
-		*	B46-0121-23	WARRANTY CARD		
-			B46-0122-23	WARRANTY CARD	K Y	
-			B46-0143-13	WARRANTY CARD		
-			B46-0197-00	QUESTIONNAIRE CARD		
-			B58-0513-04	CAUTION CARD (PRESET220-240)		
-		*	B60-1062-00	INSTRUCTION MANUAL (ENGLISH)	PE M	
-		*	B60-1063-00	INSTRUCTION MANUAL (FRENCH)		
-		*	B60-1064-00	INSTRUCTION MANUAL (CHINESE)	ME E	
-		*	B60-1065-00	INSTRUCTION MANUAL (SPANISH)		
-		*	B60-1066-00	INSTRUCTION MANUAL (GB,DU,IT)	M ME Y KP X	
620	1E, 2E		D39-0176-05	DAMPER		
623	1E		E03-0115-05	AC PLUG ADAPTER		
624	1F		E30-2592-15	AC POWER CORD	T	
624	1F		E30-2605-05	AC POWER CORD		
624	1F		E30-2650-05	AC POWER CORD		
624	1F	*	E30-2717-05	AC POWER CORD		
624	1F		E30-2721-05	AC POWER CORD	TE	
625	1D		E30-0505-05	AUDIO CORD		
626	1D		E30-2733-05	CORD WITH PLUG		
630	1E	*	G01-3516-04	TORSION COIL SPRING	X KPVMXE T KPVMXE KPVMXE	
631	1E	*	G01-3517-04	TORSION COIL SPRING		
632	2D		G02-0944-04	FLAT SPRING		
633	2D		G13-0439-04	CUSHION		
-		*	H13-0116-04	CARTON BOARD	T T M KPVMXE KPVMXE	
-		*	H50-0512-04	ITEM CARTON CASE		
-		*	H50-0563-04	ITEM CARTON CASE		
-			H10-5101-12	POLYSTYRENE FOAMED FIXTURE		
-			H10-5102-12	POLYSTYRENE FOAMED FIXTURE	T T M KPVMXE KPVMXE	
-		*	H10-5420-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5421-02	POLYSTYRENE FOAMED FIXTURE		
-			H20-0554-04	PROTECTION COVER		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	T T	
-			H25-0330-04	PROTECTION BAG		
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T T	
-			H25-0658-04	PROTECTION BAG (0330 PRINTED)		

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PARTS LIST

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635	2F		J02-1013-05	FOOT REAR	KP	
635	2F		J02-1024-05	FOOT FRONT	KP	
635	2F		J02-1034-05	FOOT	YMXT	
637	1F		J42-0083-05	POWER CORD BUSHING		
641	1E		K29-3592-04	KNØB EJECT		
642	2E	*	K29-5627-04	KNØB REC LEVEL, REC BALANCE		
644	2D, 2E	*	K29-5626-03	KNØB PLAY		
650	2F	*	L07-0643-05	POWER TRANSFORMER	KP	
650	2F	*	L07-0644-05	POWER TRANSFORMER	YM	
650	2F	*	L07-0645-05	POWER TRANSFORMER	XTE	
A	2F		N86-4006-46	BINDING HEAD TAPTITE SCREW		
B	1D, 1F		N89-3008-45	BINDING HEAD TAPTITE SCREW		
C	1E, 1F		N89-3008-46	BINDING HEAD TAPTITE SCREW		
D	1F		N09-1777-05	SEWUS SCREW M3X8	YMXT	

RECORD/PLAYBACK AMPLIFIER UNIT (X28-2490-10 : K, P, X 0-21 : Y, M 2-71 : T, E)

D36			B30-1291-05	LED(LN21CPSLX(V)-(TA4))		
C1 ,2			CQ92FM1H222J	MYLAR 2200PF J		
C3 ,4			CE04KW1V100M	ELECTRØ 10UF 35WV		
C5 ,6			CC45FSL1H221J	CERAMIC 220PF J		
C7 ,8			CK45FB1H471K	CERAMIC 470PF K		
C9 ,10			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C11 ,12			CE04KW1C470M	ELECTRØ 47UF 16WV		
C13 ,14			CC45FSL1H221J	CERAMIC 220PF J		
C15 ,16			CK45FB1H391K	CERAMIC 390PF K		
C17 ,18			CK45FB1H681K	CERAMIC 680PF K		
C19 ,20			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C21 ,22			CE04KW1C470M	ELECTRØ 47UF 16WV		
C23 ,24			CK45FB1H391K	CERAMIC 390PF K		
C25 -28			CQ92FM1H123J	MYLAR 0.012UF J		
C29 -34			C91-1434-05	FILM 150PF J		
C35 ,36			CF92FV1H393J	MF 0.039UF J		
C37 ,38			CQ92FM1H223J	MYLAR 0.022UF J		
C39 ,40			CK45FB1H102K	CERAMIC 1000PF K		
C41 ,42			CQ92FM1H103J	MYLAR 0.010UF J		
C45 ,46			CE04KW1H2R2M	ELECTRØ 2.2UF 50WV		
C47 ,48			CE04KW1HR47M	ELECTRØ 0.47UF 50WV		
C49 ,50			CE04KW1H2R2M	ELECTRØ 2.2UF 50WV		
C51 ,52			CE04KW1V100M	ELECTRØ 10UF 35WV		
C53 ,54			CF92FV1H104J	MF 0.10UF J		
C55 -58			CE04KW1HOR1M	ELECTRØ 0.1UF 50WV		
C59 ,60			CQ92FM1H222J	MYLAR 2200PF J		
C61 ,62			CE04KW1HR47M	ELECTRØ 0.47UF 50WV		
C63 -66			CQ92FM1H222J	MYLAR 2200PF J		
C67 ,68			CE04KW1V100M	ELECTRØ 10UF 35WV		
C69 ,70			CQ92FM1H562J	MYLAR 5600PF J		
C71 ,72			CE04KW1HOR1M	ELECTRØ 0.1UF 50WV		
C73 ,74			CQ92FM1H472J	MYLAR 4700PF J		
C75 ,76			CE04KW1HR47M	ELECTRØ 0.47UF 50WV		
C77 ,78			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C79 ,80			CE04KW1HR47M	ELECTRØ 0.47UF 50WV		
C81 ,82			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C83 ,84			CF92FV1H333J	MF 0.033UF J		
C87 ,88			CE04KW1C470M	ELECTRØ 47UF 16WV		

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KX-W6050

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C150 C151 C152, 153 C154 C155			C91-0769-05 CE04KW1C330M CE04KW1C101M CQ93HP2A103J CQ92FM1H822J	CERAMIC 0.01UF K ELECTRO 33UF 16WV ELECTRO 100UF 16WV MYLAR 0.010UF J MYLAR 8200PF J		
C156, 157 C158 C159, 160 C161 C162			CQ92FM1H682J CK45FF1H223Z CE04KW1V100M CQ93HP2A103J CE04KW1V100M	MYLAR 6800PF J CERAMIC 0.022UF Z ELECTRO 10UF 35WV MYLAR 0.010UF J ELECTRO 10UF 35WV		
C163 C164, 165 C166 C167 C168			CQ92FM1H822J CQ92FM1H682J CE04KW1HR47M CE04KW1V100M CE04KW1A101M	MYLAR 8200PF J MYLAR 6800PF J ELECTRO 0.47UF 50WV ELECTRO 10UF 35WV ELECTRO 100UF 10WV		
C169 C170 C171 C172 C173			CK45FF1H223Z CE04KW1A101M CK45FF1H223Z CE04BW0J222M CK45FF1H223Z	CERAMIC 0.022UF Z ELECTRO 100UF 10WV CERAMIC 0.022UF Z ELECTRO 2200UF 6.3WV CERAMIC 0.022UF Z		
C174, 175 C176 C177 C178 C179			CC45FSL1H221J CK45FF1H223Z CE04KW1V100M CE04KW0J471M CE04KW1A101M	CERAMIC 220PF J CERAMIC 0.022UF Z ELECTRO 10UF 35WV ELECTRO 470UF 6.3WV ELECTRO 100UF 10WV		
C180 C181 C182, 183 C184 C185			CE04KW1V100M CE04KW1C101M CF92FV1H104J CE04BW1E102M CK45FF1H223Z	ELECTRO 10UF 35WV ELECTRO 100UF 16WV MF 0.10UF J ELECTRO 1000UF 25WV CERAMIC 0.022UF Z		
C186 C187 C188-190 C191 C192, 193			CE04KW1H3R3M CK45FF1H223Z CE04KW1H010M CE04KW1C101M CF92FV1H104J	ELECTRO 3.3UF 50WV CERAMIC 0.022UF Z ELECTRO 1.0UF 50WV ELECTRO 100UF 16WV MF 0.10UF J		
C194 C195 C196, 197 C198 C199, 200		*	C90-3482-05 CK45FF1H223Z CE04KW1V100M CE04KW1J470M CE04KW1V330M	ELECTRO 2200UF 35WV CERAMIC 0.022UF Z ELECTRO 10UF 35WV ELECTRO 47UF 63WV ELECTRO 33UF 35WV		
C201 C202 C203 C204, 205 C206			CK45FF1H223Z CE04KW1H010M CE04KW1C331M CC45FSL1H180J CC45FSL1H560J	CERAMIC 0.022UF Z ELECTRO 1.0UF 50WV ELECTRO 330UF 16WV CERAMIC 18PF J CERAMIC 56PF J		
C207 C208, 209 C210 C211			CE04KW1A101M CC45FSL2H100D CE04KW1V100M CK45FF1H223Z	ELECTRO 100UF 10WV CERAMIC 10PF D ELECTRO 10UF 35WV CERAMIC 0.022UF Z		
J1 J2 J3		*	E63-0071-05 E11-0208-05 E11-0188-05	PHONE JACK LINE IN/OUT PHONE JACK PHONES MINIATURE PHONE JACK SYNCHRO		
J6			J11-0098-05	WIRE CLAMPER		

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L1 ,2 L3 ,4 L5 ,6 L7 ,8 L9 ,10		*	L40-1035-29 L39-0171-05 L32-0556-05 L79-1209-05 L39-0126-05	SMALL FIXED INDUCTOR(10MH, J) TRAP COIL BIAS OSCILATING COIL LC FILTER TRAP COIL		
L20 ,21 X1		*	L32-0554-05 L78-0294-05	BIAS OSCILATING COIL RESONATOR 10.000MHz		
CP1 R163,164 R165,166 R172 R184			R90-0500-05 RD14NB2E271J RD14NB2E102J RD14NB2E100J RD14NB2E100J	MULTI-COMP 100KX6 J 1/4W RD 270 J 1/4W RD 1.0K J 1/4W RD 10 J 1/4W RD 10 J 1/4W		
VR1 -4 VR5 -8 VR11-14 VR50 VR51			R12-0605-05 R12-3686-05 R12-1619-05 R12-3685-05 R12-1619-05	TRIMMING POT.(220) TRIMMING POT.(22K) TRIMMING POT.(4.7K) TRIMMING POT.(10K) TRIMMING POT.(4.7K)		
VR52 VR53			R12-3685-05 R12-1619-05	TRIMMING POT.(10K) TRIMMING POT.(4.7K)		
K1 ,2 S1 -17 S18 -20 S22 -27 S30			S76-0018-05 S40-1064-05 S31-1036-05 S40-1064-05 S31-2131-05	MAGNETIC RELAY PUSH SWITCH SLIDE SWITCH PUSH SWITCH SLIDE SWITCH (POWER TYPE)	YM	
S21		*	T99-0531-05	SPEED DETECTOR		
D1 -29 D1 -29 D30 -35 D37 -45 D37 -45			HSS104 1SS133 RB721Q HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		
D46 D47 D47 D51 D51			RB721Q HZS3.9N(B2) RD3.9ES(B2) HZS6.2N(B2) RD6.2ES(B2)	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D52 -59 D52 -59 D60 D61 -63 D61 -63			HSS104 1SS133 KBP02ML-6127 HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		
D64 D64 D65 D65 D66			HZS3.9N(B2) RD3.9ES(B2) HZS24N(B) RD24ES(B) HZS3.9N(B2)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D66 D67 -69 D67 -69 D70 D70			RD3.9ES(B2) HSS104 1SS133 S5688B 1SR139-100	ZENER DIODE DIODE DIODE DIODE DIODE		
D71 D71 D72			HSS104 1SS133 S5688B	DIODE DIODE DIODE		

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D72			1SR139-100	DIODE		
D73			RB721Q	DIODE		
D74 -78			HSS104	DIODE		
D74 -78			1SS133	DIODE		
D79			S5688B	DIODE		
D79			1SR139-100	DIODE		
D80			HSS104	DIODE		
D80			1SS133	DIODE		
D81			S5688B	DIODE		
D81			1SR139-100	DIODE		
D82			RB721Q	DIODE		
D83 -88			HSS104	DIODE		
D83 -88			1SS133	DIODE		
D89			D3SBA20F03	DIODE		
D89			RBV-402LFA	DIODE		
D91 -96			HSS104	DIODE		
D91 -96			1SS133	DIODE		
D97			HSS104	DIODE		
D97			1SS133	DIODE		
ED1		*	BJ128GK	INDICATOR TUBE		
IC1		*	CXP82324-126Q	IC(8BIT MICROPROCESSOR)		
IC2 ,3			TA8125S	IC(2CH PRE AMP)		
IC4			XRU4052B	IC(MULTIPLEXER/DEMULTIPLEXER)		
IC5			UPC1297CA	IC(DOL HX PRG SYSTEM)		
IC6			PST529D	IC(SYSTEM RESET)		
IC7			XRA17812T	IC		
IC8			XRA17815T	IC		
IC9		*	HA12157NTA	IC		
IC10			NJM4565D-D	IC(OP AMP X2)		
IC10			XRA15218-DX	IC(OP AMP X2)		
Q1 -4			2SD1302(S,T)	TRANSISTOR		
Q5 ,6			2SC1845(F,E)	TRANSISTOR		
Q7 ,8			DTC124ES	DIGITAL TRANSISTOR		
Q7 ,8			UN4212	DIGITAL TRANSISTOR		
Q9 -16			2SC1845(F,E)	TRANSISTOR		
Q17 ,18			2SC1740S(Q,R)	TRANSISTOR		
Q17 ,18			2SC3311A(Q,R)	TRANSISTOR		
Q19 ,20			2SD1302(S,T)	TRANSISTOR		
Q21 -24			DTC124ES	DIGITAL TRANSISTOR		
Q21 -24			UN4212	DIGITAL TRANSISTOR		
Q25 ,26			2SC1740S(Q,R)	TRANSISTOR		
Q25 ,26			2SC3311A(Q,R)	TRANSISTOR		
Q27 -32			DTC124ES	DIGITAL TRANSISTOR		
Q27 -32			UN4212	DIGITAL TRANSISTOR		
Q50			DTA124ES	DIGITAL TRANSISTOR		
Q50			UN4112	DIGITAL TRANSISTOR		
Q51 -53			DTC124ES	DIGITAL TRANSISTOR		
Q51 -53			UN4212	DIGITAL TRANSISTOR		
Q54 ,55			2SC1740S(Q,R)	TRANSISTOR		
Q54 ,55			2SC3311A(Q,R)	TRANSISTOR		
Q56			2SC3940A(R,S)	TRANSISTOR		
Q57			DTC143TS	DIGITAL TRANSISTOR		
Q57			UN4216	DIGITAL TRANSISTOR		
Q58			DTA124ES	DIGITAL TRANSISTOR		
Q58			UN4112	DIGITAL TRANSISTOR		

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Q59 ,60 Q59 ,60 Q61 Q62 ,63 Q62 ,63			DTC124ES UN4212 2SD1302(S,T) 2SC1740S(Q,R) 2SC3311A(Q,R)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q64 Q65 ,66 Q65 ,66 Q68 Q68			2SC3940A(R,S) DTC124ES UN4212 2SC1740S(Q,R) 2SC3311A(Q,R)	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
Q69 Q70 Q70 Q71 Q72 ,73			2SC3940A(R,S) 2SC1740S(Q,R) 2SC3311A(Q,R) 2SA1123(R,S) DTC124ES	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q72 ,73 Q74 ,75 Q76 Q76 Q77 -79			UN4212 2SA1534A(R,S) 2SA1309A(Q,R) 2SA933S(Q,R) DTC124ES	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q77 -79 Q80 ,81 Q82 Q82 Q83			UN4212 2SA1534A(R,S) 2SA1309A(Q,R) 2SA933S(Q,R) DTC124ES	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q83 Q84 Q84 Q85 ,86 Q85 ,86			UN4212 DTA124ES UN4112 DTC124ES UN4212	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q87 Q88 Q88 Q89 Q90 ,91			2SA992(F,E) DTC124ES UN4212 2SA992(F,E) DTC124ES	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q90 ,91 Q92 Q92			UN4212 DTC143TS UN4216	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
MECHANISM ASSY (D40-126X-XX)				A DECK 7-05 : K, P, Y, M, X 9-05 : T, E B DECK 8-05 : K, P, Y, M, X 0-05 : T, E		
301 302 303 305 306	2A 2B 2A 2A 1B	* * * * *	A10-3053-08 A10-3054-08 A15-0083-08 B09-0243-08 D01-0154-08	HEAD BASE CHASSIS CALKED ASSY MAIN CHASSIS CALKED ASSY HEAD FLAME REEL CAP FLYWHEEL ASSY L	KPYMX	
306 307 307 309 310	1B 2C 2C 1B 2B	* * * * *	D01-0156-08 D01-0155-08 D01-0157-08 D03-0401-08 D03-0402-08	FLYWHEEL ASSY L FLYWHEEL ASSY R FLYWHEEL ASSY R REEL DESK ASSY(REVERSE) REEL DESK ASSY(FORWARD)	TE KPYMX TE	
312 313 314 315 316	2A 2A 2A, 2B 1A 2B	* * * * *	D10-3394-08 D10-3395-08 D10-3396-08 D10-3397-08 D10-3398-08	HEAD LEVER ASSIST ARM ASSY EJECT LOCK LEVER PLAY ARM L PLAY ARM R		

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317	1B	*	D10-3399-08	REVERSE ARM		
318	1B	*	D10-3400-08	FR ARM		
319	2B	*	D10-3401-08	BRAKE ARM		
320	2B	*	D10-3402-08	TRIGER ARM		
321	1B	*	D10-3403-08	EJECT ARM		B
321	2C	*	D10-3404-08	EJECT ARM		A
324	2A	*	D13-1551-08	HEAD ARM GEAR		
325	2B	*	D13-1552-08	PLAY GEAR		
326	1B	*	D13-1553-08	PERST FORWARD GEAR		
327	2C	*	D13-1554-08	CAM GEAR		
330	1B	*	D15-0352-08	FR PULLEY ASSY		
333	2B	*	D23-0297-08	BEARING METAL A		
334	1C	*	D23-0298-08	BEARING METAL B		
335	1C	*	D23-0299-08	BEARING METAL D		
336	2B	*	D23-0300-08	BEARING METAL C		
340	1C		E31-7731-08	MOTOR WIRE		
341	1B	*	E35-0643-08	SOLENOID CONNECTING WIRE		
342	1B	*	E35-0644-08	MECHA CONTROL CONNECTING WIRE		B
342	1B	*	E35-0645-08	MECHA CONTROL CONNECTING WIRE		A
344	2C	*	E40-4688-08	HOLDER		
346	2A	*	G01-3587-08	HEAD FLAME SPRING		
347	2A	*	G01-3588-08	HEAD LEVER SPRING		
348	2A	*	G01-3589-08	HEAD CHASSIS SPRING		
349	2A	*	G01-3590-08	REEL SPRING	L	
350	2A	*	G01-3591-08	PINCH ROLLER SPRING	L	
351	2A	*	G01-3592-08	PINCH ROLLER SPRING	L	
352	2A	*	G01-3593-08	TORSION COIL SPRING		
353	2B	*	G01-3594-08	REEL SPRING	R	
354	2B	*	G01-3595-08	PINCH ROLLER SPRING	R	
355	2B	*	G01-3596-08	PINCH ROLLER SPRING	R	
356	1B	*	G01-3597-08	REVERS ARM SPRING		
357	2B	*	G01-3598-08	FLYWHEEL SPRING	L	
358	2B	*	G01-3599-08	FLYWHEEL SPRING	R	
359	1B	*	G01-3600-08	EJECT LEVER SPRING		B
359	2C	*	G01-3601-08	EJECT LEVER SPRING		A
362	2A	*	G02-1027-08	AZIMUTH SPRING		
363	1A	*	G02-1028-08	CASSETTE SPRING		
365	2A	*	J19-3592-08	HEAD HOLDER ASSY		
366	1B	*	J19-3593-08	LEAD HOLDER		
368	1C	*	J21-6020-08	FW BRACKET		
370	1B, 2C	*	J31-0861-08	EJECT COLLER		
372	1C	*	J39-0178-08	SPACER		
374	1B	*	J70-0442-08	PRINTED WIRING BOARD		
375	2C	*	J70-0443-08	PRINTED WIRING BOARD		
378	2A	*	N09-3011-08	SCREW		
379	2A	*	N09-3012-08	SCREW		
380	2A	*	N09-3013-08	SCREW		
381	1A, 2C	*	N09-2789-08	SCREW		
382	1C	*	N09-3015-08	SCREW		
383	1C	*	N09-3016-08	SCREW		
384	1C	*	N09-3017-08	SCREW		
385	1B, 2C	*	N09-3018-08	SCREW		
386	1A,	*	N09-3019-08	HEAD SCREW		
388	1B	*	N19-1334-08	WASHER		
389	2B, 1C	*	N19-1335-08	WASHER		

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii)

T:England

E:Europe


Y:AAFES(Europe)

X:Australia

M:Other Areas

A : A DECK

B : B DECK

 indicates safety critical components.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
390	1A	*	N19-1338-08	HEAD WASHER		
391	1B	*	S74-0020-08	LEAF SWITCH		
393	1B	*	S90-0115-08	MODE SWITCH		
395	1B	*	T94-0231-08	SOLENOID ASSY		
396	1C	*	T95-0129-08	HALL IC		
BM	1C	*	D16-0350-08	MAIN BELT	KPYMX	
BM	1C	*	D16-0351-08	MAIN BELT	TE	
BR	1B	*	D16-0349-08	REEL BELT		
PF	2B	*	D14-0350-08	PINCH ROLLER ASSY		
PR	2A	*	D14-0349-08	PINCH ROLLER ASSY		
MM	1C	*	T42-0639-08	DC MOTOR ASSY	KPYMX	
MM	1C	*	T42-0640-08	DC MOTOR ASSY	TE	
PH	2A		T31-0066-08	PLAY HEAD		A
RPEH	2A		T39-0020-08	RECODE/PLAY/ERASE HEAD		B

L:Scandinavia

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 indicates safety critical components.

KX-W6050

SPECIFICATIONS

Track System	4 track, 2 channel stereo	
Recording System	AC bias (Frequency: 105 kHz)	
Heads	A DECK	
	Playback/recording heads	1
	Erasing head	1
	B DECK	
	Playback/recording heads	1
	Erasing head	1
Motors	A DECK	DC motor × 1
	B DECK	DC motor × 1
Wow and Flutter	±0.18% (IEC)	
	±0.3% (DIN)	
	0.09% (W.RMS)	
Fast Winding Time	Approx. 115 seconds (C-60 tape)	
Frequency Response		
Normal Tape	25 Hz to 16,000 Hz, ±3 dB	
CrO ₂ Tape	25 Hz to 17,000 Hz, ±3 dB	
Metal Tape	25 Hz to 18,000 Hz, ±3 dB	
Signal to Noise Ratio		
Dolby NR OFF	52 dB	
(IEC, 250 nWb/m, Metal tape)		
Dolby NR OFF	59 dB	
Dolby B NR ON	68 dB	
Dolby C NR ON	74 dB	
(3rd, H.D., 3%, Metal tape)		
Harmonic Distortion	Less than 3.0%	
(at 315 Hz, 3rd H.D., 250 nWb/m, Metal tape)		
Input sensitivity/Impedance		
LINE IN	122.8 mV/47 kΩ	
Output Level/Impedance		
LINE OUT	775 mV/0.9 kΩ	
Headphones	3 mW/32 Ω	

[General]

Power Consumption	25 W
Dimensions	W: 440 mm (17-5/16")
	H: 137 mm (5-3/8")
	D: 269 mm (10-9/16")
Weight (Net)	4.7 kg (10.3 lb)

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specification may be changed without notice.

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Pour cette raison, les spécifications sont sujettes à modifications sans préavis.
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Le système de réduction du bruit de fond est fabriqué sous licence des Dolby Laboratories.

KENWOOD strebt ständige Verbesserungen in der Entwicklung an.
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.
DOLBY und Doppel-D-Symbol sind eingetragene Warenzeichen der Dolby Laboratories.
Dolby-Rauschunterdrückung mit Lizenz der Dolby Laboratories gefertigt.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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